

Bookt Connect

Inventory Syndication API

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Overview

The Bookt Connect Inventory Syndication API allows 3rd party software developers to easily access Bookt customers' inventory using RSS or ATOM Feeds. The data that can be accessed are general property/room information, rates and availability.

The Bookt Connect service also supports seamless booking integration with the ability to query and write back reservation and payment information for bookings executed on any 3rd party portal through a SOAP interface.

Bookt is committed to providing open, scalable and reliable API interfaces to our inventory partners. If you have any questions about the information in this document, please contact API@bookt.com.

Technical Specifications

Feed 1: General Property, Fees and Taxes Feed

Overview

The purpose of this feed is to get all or a subset of properties (room categories) defined in a specific Bookt solution. Data is returned as an RSS or ATOM feed with additional custom attributes. Feed supports delta queries through the last modified parameter.

Access to data for a specific can be given by a user with Solution Admin credentials, by in the Control Panel going to **System >> Connect >> New Distribution >> XML Connect Feed**. When a new feed link has been saved, the specific API key for that solution will be obtainable. That's the key that should be used in all calls below.

General format

<https://connect.bookt.com/atom/?apikey={apikey}&fmt={FeedFormat}&mod={LastModified}&page={page}&pagesize={pagesize}>

Parameters

apikey (Required)

This key is provided by Bookt. It is associated with one or more solutions.

fmt (Optional)

Specifies whether to return an RSS or ATOM feed. Use *fmt=rss* to return an RSS feed. If not supplied the returned format is ATOM.

mod (Optional)

Last modified parameter. If supplied, feed will only return records that have been modified after this date.

Example 1: Retrieve property date in atom format

<https://connect.bookt.com/atom/?apikey=789D8F93-79E5-4738-A641-E755F6253A62&page=1>

Example 2: Retrieve property data in rss format

<https://connect.bookt.com/atom/?apikey=789D8F93-79E5-4738-A641-E755F6253A62&page=1&fmt=rss>

Feed 2: Rate Feed

Overview

The purpose of this feed is to get all or a subset of rates for a property defined in a specific Bookt solution. Data is returned as an RSS or ATOM feed with additional custom attributes (e.g. Length of Stay and Currency). Feed supports delta queries through the last modified parameter.

General format

<https://connect.bookt.com/atom/rates/?apikey={apikey}&fmt={FeedFormat}&pid={PropertyID}&sdate={StartDate}&edate={EndDate}>

Parameters

apikey (Required)

This key is provided by Bookt. It is associated with one or more solutions.

fmt (Optional)

Specifies whether to return a RSS or ATOM feed. Use *fmt=rss* to return an RSS feed. If not supplied the returned format is ATOM.

pid (Required)

Specifies the property id to retrieve rates on. The property id can be gotten from Feed 1.

sdate (Optional)

Species the start date. If not specified, the start date is today.

edate (Optional)

Specifies the end date. If not specified, the end date is one year from today.

Return Data

Rate information is returned for 1, 7 and 30 days length of stay (LOS).

Example 1: Retrieve rates for a specific property from today to one year from today

<https://connect.bookt.com/atom/rates/?apikey=789D8F93-79E5-4738-A641-E755F6253A62&pid=1826>

Example 2: Retrieve rates for a specific property from 3/1/2011 to 7/1/2011

<https://connect.bookt.com/atom/rates/?apikey=789D8F93-79E5-4738-A641-E755F6253A62&pid=1826&sdate=3/1/2011&edate=7/1/2011>

The way we display rates in our feed is based on 1) the LOS, 2) the Start Date, and 3) the rate's Currency. When you reach a rate of "-1" it is a terminator for that rate block. So if you have a rate of \$100 which begins on today's date and then have a rate of -1 one month from today, it means that the \$100 rate block starts today and end one month from today.

A rate can either be terminated by a new rate or by a -1. The -1 will most commonly be used if there is either a gap in rates over some date range, or if a property manager/owner has not yet entered rates beyond some date.

Also, worth noting is that you could possibly have two or more rates shown for a single date. This will only occur in cases where there is a different nightly, weekly, or monthly rate beginning on a given date. LOS is configurable in the Bookt platform, but the default values are 1 (nightly), 7 (weekly) and 30 (monthly).

Feed 3: Availability Feed

Overview

The purpose of this feed is to get all or a subset of available dates for a property (room category) defined in a specific Bookt solution. Data is returned as an RSS or ATOM feed with additional custom attributes. Feed supports delta queries through the last modified parameter.

General format

<https://connect.bookt.com/atom/availability/?apikey={apikey}&fmt={FeedFormat}&pid={PropertyID}&sdate={Star Date}&edate={EndDate}>

Parameters

apikey (Required)

This key is provided by Bookt. It is associated with one or more solutions.

fmt (Optional)

Specifies whether to return a RSS or ATOM feed. Use *fmt=rss* to return an RSS feed. If not supplied the returned format is ATOM.

pid (Required)

Specifies the property id to retrieve rates on. The property id can be gotten from Feed 1.

sdate (Optional)

Species the start date. If not specified, the start date is today.

edate (Optional)

Specifies the end date. If not specified, the end date is one year from today.

Return Data

An item is returned for each day in the date range. The content of each item will be either True for available or False for not available.

Example 1: Retrieve availability for a specific property from today to one year from today

<https://connect.bookt.com/atom/availability/?apikey=789D8F93-79E5-4738-A641-E755F6253A62&pid=1826>

Example 2: Retrieve availability for a specific property from 3/1/2011 to 7/1/2011

<https://connect.bookt.com/atom/availability/?apikey=789D8F93-79E5-4738-A641-E755F6253A62&pid=1826&sdate=3/1/2011&edate=7/1/2011>

SOAP Interfaces

Overview

The purpose of these interfaces is to provide an inventory partner with the capability to query or write back reservation and lead data to a Bookt solution. The WSDL can be downloaded by going to

<https://connect.bookt.com>.

The SOAP interface is divided into the following categories: Properties, Rates & Availability, Bookings, CRM and Reviews.

Category: Properties

Method - GetPropertiesCategories

Description

Returns a list of property categories such as “Condo”, “House”, “Villa”.

Return

Returns an array of strings

Exceptions

- Failed to validate apiKey

Method - GetPropertyIDs

Description

Returns a list of IDs that can be used for other api calls. An optional param “lastMod” can be specified to only return those properties that have changed since the specified date. To receive all, set “lastMod” to a date.minvalue.

Return

Returns an array of integers.

Exceptions

- Failed to validate apiKey

Method - GetProperty

Description

Returns full information on a property such as headline, description, summary, rates, amenities as well as any property specific fees, taxes, specials and booking rules. Either an internal or external ID can be specified.

Return

Returns an array of integers.

Exceptions

- Failed to validate apiKey
- Unable to find property with given ID

Method - GetPropertyIDsByCategory

Description

Returns a list of IDs for a given property category.

Return

Returns an array of integers.

Exceptions

- Failed to validate apiKey

Category: Rates & Availability

Method - GetRates

Description

Returns the rates for a given internal PropertyID. The rates returned is a list of rates indexed by date and also sorted by date.

Return

Returns a list of rates indexed and sorted by date.

Exceptions

- Failed to validate apiKey
- Invalid propertyID
- Invalid los

Method - SetRates

Description

Updates the rates for a given internal PropertyID

Return

None

Exceptions

- Failed to validate apiKey
- Invalid propertyID
- Invalid los

Method - GetAvailability

Description

Returns the number of bookings per day for a given propertyID.

Return

Returns a list of integers indexed and sorted by date. The integer value represents the number of units booked per day.

Exceptions

- Failed to validate apiKey
- Invalid propertyID

Method - SetAvailability

Description

Returns the number of bookings per day for a given propertyID.

Return

Updates the availability for a given internal propertyID. Availability can only be modified for blackout bookings and cannot alter bookings such as online and house bookings.

Exceptions

- Failed to validate apiKey
- Invalid propertyID
- The length of arrays do not match (effDates, numAvailable)
- Invalid effDate – {dateCheckResult}

Method - SetRatesAndAvailability

Description

Combines SetRates and SetAvailability into a single call

Return

None

Exceptions

- Failed to validate apiKey
- Invalid propertyID
- Invalid los
- The length of arrays do not match (effDates, rates, numAvailable)
- Invalid effDate – {dateCheckResult}

Category: Bookings

Method - GetBooking

Description

Returns information on an existing booking. Either an internal or external id can be specified.

Return

Booking object

Exceptions

- Failed to validate apiKey
- Unable to find booking with the specified ID.

Method - MakeBooking

Description

Creates a new booking. The call can be set in info only mode which will just return a quote and will not create a permanent booking in the system.

Return

Booking object with full statement and renter information.

Exceptions

- Failed to validate apiKey
- CheckIn must be greater than today.
- CheckOut must be greater than CheckIn.
- The specified property could not be found.
- There is no availability on {first date no available}.
- Renter must be specified.
- Renter's lastname is missing.
- Renter's email or phone must be specified.

Method - CancelBooking

Description

Cancels an existing booking and opens the unit for availability.

Return

None

Exceptions

- Failed to validate apiKey
- Unable to find booking with the specified ID.

Method - ModifyBooking

Description

Future (not implemented yet).

Return

None

Exceptions

- Failed to validate apiKey

Method - GetBusinessRules

Description

Returns information regarding accepted credit cards, checkin/checkout times, time zone, and min/max days from now where bookings are allowed.

Return

BusinessRules Object

Exceptions

- Failed to validate apiKey

Category: CRM

Method - GetEventCategories

Description

Returns a list of event categories that can be used in CreateEvent calls.

Return

Returns a string array

Exceptions

- Failed to validate apiKey

Method - GetEvent

Description

Returns information about an existing event/lead request.

Return

Returns an event object

Exceptions

- Failed to validate apiKey
- Unable to find event with the specified ID.

Method - CreateLead

Description

Creates a new lead. The mode parameter specifies the Lead Creation Mode.

Lead Creation Modes are defined as follows:

0 = Attempt to update an existing record by matching the internal id, o.w., create a new record.

1 = Attempt to update an existing record by matching the external id, o.w., create a new record.

2 = Attempt to merge the record with an existing record by matching the internal id, o.w., create a new record.

3 = Attempt to merge the record with an existing record by matching the external id, o.w., create a new record.

4 = Attempt to merge the record with an existing record by matching attributes such as name, email and phone.

5 = Always create a new record

Return

Returns a Person object

Exceptions

- Failed to validate apiKey

Method - CreateEvent

Description

Creates a lead request. The lead specified in this call will be created if it does not exist or will be updated. The rules governing create new vs. update can be controlled by the mode passed into this call and follows the Lead Creation Modes.

Return

Returns the new created Event object

Exceptions

- Failed to validate apiKey

Examples

The following examples have been implemented in VB.NET, but similar functionality can be implemented in almost all modern programming languages.

Example 1: Write a booking into a Bookt Solution (VB.NET)

```
Dim wc As New connect.ConnectClient
Dim b As New connect.Booking
b.CheckIn = "4/1/2009"
b.CheckOut = "4/5/2009"
b.PropertyID = 1834
b.NumAdults = 1

' "I": Online Booking
' "H": House Booking
' "A": Outside Agent/3rd Party Booking
' "O": Owner Booking
' "B": Block Out
' "P": Booking from External PMS
b.Type = "I"

' "P": Pending Confirmation
' "C": Confirmed
' "I": Checked In
' "O": Checked Out
' "X": Cancelled
b.Status = "C"

b.Renter = New connect.Person
b.Renter.FirstName = "Jerry"
b.Renter.LastName = "Smith"
b.Renter.Address1 = "1234 Main Street"
b.Renter.City = "Anytown"
b.Renter.State = "FL"
b.Renter.Country = "US"
b.Renter.HomePhone = "305-555-1234"
b.Renter.PrimaryEmail = "jerry.smith@anytown.com"

b.CreditCard = New connect.CreditCard
b.CreditCard.CardNumber = "378282246310005"
' "V": Visa
' "M": MasterCard
' "A": American Express
' "D": Discover
' "O": Other
b.CreditCard.Type = "A"
b.CreditCard.ExpiresOn = New Date(2010, 1, 1)
b.CreditCard.SecurityCode = "123"

b = wc.MakeBooking(apiKey, b, True) ' No real booking made, but the
statement get filled.
'      b = wc.MakeBooking(apiKey, b, False) ' Booking will be made
```

'When calling the function above, a statement object will be returned. It contains detail items that have 'the following status and type values:

'**Status**

'"A": Active
'"N": Not active

'**Type** - Statement detail **type**. Possible values are:

'"S": Service / Rent
'"T": Tax
'"F": Fee
'"C": Commission
'"U": Undefined

Example 2: Write a lead request into a Bookt Solution (VB.NET)

```
Dim wc As New connect.ConnectClient
Dim leadInfo As New connect.Person
'leadInfo.AltID = "FK-123" ' can be left blank of not tracking
leadInfo.FirstName = "John"
leadInfo.LastName = "Smith"
leadInfo.HomePhone = "123-123-1234"
leadInfo.PrimaryEmail = "john.smith@test.com"
Dim evtInfo As New connect.Event
evtInfo.Lead = leadInfo ' required
evtInfo.AddedOn = Now ' date/time the lead request was made
evtInfo.CheckIn = "6/1/2011" ' not required
evtInfo.CheckOut = "6/5/2011" ' not required
evtInfo.Message = "Can I bring my dog?"
evtInfo.MessageFormat = "html" ' other options are "plain" and "mime"
evtInfo.NumAdults = 2 ' not required
evtInfo.NumChildren = 1 ' not required
evtInfo.PropertyID = "10023" ' (not required) Bookt's propertyID
evtInfo.Subject = "Request for information" ' if not specified, then
default value associated with event type is used
' Either Incoming Email or Phone Call
evtInfo.Type = "Phone Call" '
'evtInfo.Type = "Incoming Email"
'evtInfo.Statement = Nothing ' this could be filled if you have
calculated your own quote
' -- Modes --
' 0 = Lead ID is specified in evtInfo.Lead
' 1 = Lead ID is specified in evtInfo.Lead and is the external ID
' 2 = Lead ID is specified in evtInfo.Lead, update the lead info
using the specified values
' 3 = Lead ID is specified in evtInfo.Lead and is the external ID,
update the lead info using the specified values
' 4 = Create a new lead using standard dupe tracking rules which
attempts to match by email, phone and name
' 5 = Create a new lead, do not use de-duping rules
' create the event with new lead info and standard de-duping rules
Dim res As connect.Event = wc.CreateEvent(apiKey, evtInfo, 4)
System.Diagnostics.Debug.Print("EventID in Bookt={0} and LeadID in
Bookt={1}", res.ID, res.Lead.ID)
```