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# Introduction

The Browse Dates Service provides an aggregated view of flight and price data for specific cities or airports over many time frames. The prices returned are the cheapest price per month or day from our cache data.

# Query Types

The query types are:

* Get the cheapest price from one place to another for each day of a given month
* Get the cheapest price from one place to another for each month within the next year.

Examples of questions that can be answered are:

* Find me the cheapest prices from Edinburgh to London in the next year. This gives the cheapest known price for each month of the coming year.
* Find me the cheapest prices from Edinburgh to London departing in January and returning in February. This gives the cheapest prices for each day in the months on the query.
* Find me the cheapest prices from Edinburgh to London departing on 5th January and returning on 6th February. This gives the cheapest prices for these days.

### Limited Service

Initially access will be granted to a limited version of the service for evaluation. This will be fully featured with access to live data, but limited to one route and a predetermined set of dates.

# Query Details

## Request Format

The service takes the form of an HTTP GET request.

The data will be returned in XML format by default. An HTTP Accept header value of ‘application/json’ should be specified to return data in JSON format.

The X-Forwarded-For header must be included with the end user’s IP address. Unless agreed in advance, Skyscanner will be performing robot detection and reserves the right to suspend access to the service without prior notification.

#### URL Format

http://partners.api.skyscanner.net/apiservices/browsedates/v1.0/{country}/{currency}/{locale}/{originPlace}/{destinationPlace}/{outboundPartialDate}/{inboundPartialDate}?apiKey={apiKey}

#### Parameters (URL / Querystring / Form)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Required** | **Description** | **Data Type** | **Constraints** |
| country | Yes | The user’s market country | String | Skyscanner country code |
| currency | Yes | The user’s selected currency | String | ISO currency code |
| locale | Yes | The user’s selected language | String | ISO locale code |
| originPlace | Yes | The origin place for the search | String | Skyscanner place code |
| destinationPlace | Yes | The destination place for the search | String | Skyscanner place code |
| outboundPartialDate | Yes | The outbound date | String | Valid partial date |
| inboundPartialDate | No | The inbound date | String | Valid partial date |
| apiKey | Yes | The assigned client api key | String |  |

#### Skyscanner Country Code

These are <http://en.wikipedia.org/wiki/ISO_3166-1> codes.

#### ISO Currency Code

For example ‘GBP’, ‘USD’ etc. Only a subset of global currencies is supported. A reference service is available to display supported currencies. Please see the Reference Service - Technical Documentation.

#### ISO Locale Code

For example ‘en-GB’. Only a subset of languages is supported. A reference service is available to display supported currencies. Please see the Reference Service - Technical Documentation.

#### Skyscanner Place Code

This can be one of:

* An Airport Code – e.g. ‘LHR’. IATA airport codes are accepted.
* A City Code – e.g. ‘LON‘. IATA city codes are accepted, as well as Skyscanner 4 letter city codes.

Valid Date Range

Can be one of:

* Specific month in ISO format – e.g. ‘YYYY-MM’
* Specific day in ISO format – e.g. ‘YYYY-MM-DD’
* ‘anytime’ – Indicates an unspecified date (in practice this is up to 12 months from the current month)

The return date can be omitted for a one-way search.

The return date must not be before the departure date range.

The return date must be at the same level as the outbound date, e.g. departure on 2012-10 and return ‘anytime’ is an invalid search.

# Response Details

### Http Response Codes

|  |  |
| --- | --- |
| **Code** | **Reason** |
| 200 | **Success** |
| 400 | **Bad Request** – input validation failed. |
| 403 | **Forbidden** – The API key was not supplied, or it was invalid, or it is not authorized to access the service. |
| 500 | **Server Error** – An internal server error has occurred which has been logged. |

### The Response

|  |  |
| --- | --- |
| **Element** | **Details** |
| Dates | Contains collections of OutboundDates and (for return searches) InboundDates for each date period (depending on the query type this could be a single day or a whole month) and a list of QuoteIds pertaining to each. |
| Quotes | The cheapest Quote for each date period, with price, and either outbound or inbound journey details, or both. |
| Places | A normalized cross reference lookup of Place information. |
| Carriers | A normalized cross reference lookup of Carrier (operator) information, used by the quotes. |
| Urls | Links to other services. These include DrillDown to move to the next more specific query. |

### Combining Quotes

For a return search quotes can be one of three types:

* Outbound only,
* Inbound only or
* Return.

If a quote has both outbound and inbound leg information it is a return quote. Return quotes can only be used on the pair of dates specified. However, any outbound quote can be combined with any inbound quote to make a return journey.

The reason for this is because there are two different pricing model used by different airlines.

### Rollup Pricing

The server does this combining of quotes to create a price for each date returned. The price is included with the Outbound or Inbound Dates collections.

For one-way searches, this is the cheapest one-way price for the given date. For return searches, the price shown is the total return price, which is made up of the cheapest possible combination of legs within the search criteria. For example, for a search outbound in March, and returning in March, the inbound price for March 12th will be the cheapest outbound price for any date in the period March 1st to 12th combined with the cheapest inbound price on March 12th. This avoids the need to combine the quotes in the client code.

### Code Schemas

The response will contain codes which reference places. These codes are internal representations of various codes schemas that can be used in calls to the services. These codes may change without notice and should not be used except to reference places for the next step in the flight funnel.

# Example Requests / Responses

### Search Anytime

|  |
| --- |
| **Request - http://partners.api.skyscanner.net/apiservices/browsedates/v1.0/GB/GBP/en-GB/LON/JFK/anytime/anytime** |
| |  |  | | --- | --- | | country | GB | | currency | GBP | | locale | en-GB | | originPlace | LON | | destinationPlace | JFK | | outboundPartialDate | anytime | | inboundPartialDate | anytime | |
| **Response** |
| |  |  | | --- | --- | | Dates | {“Dates”:{“OutboundDates”:[{“PartialDate”:”2012-12”,”QuoteIds”:[1] },{“PartialDate”:”2013-01”,”QuoteIds”:[2],{“PartialDate”:”2013-02”,”QuoteIds”:[3] }],”InboundDates”:[{“PartialDate”:”2012-12”,”QuoteIds”:[1] },{“PartialDate”:”2013-01”,”QuoteIds”:[2] },{“PartialDate”:”2013-02”,”QuoteIds”:[3] }]] | | Quotes | “Quotes”:[{“QuoteId”:1,”MinPrice”:505.6343,”Direct”:false,”AgentIds”:[4132306],”OutboundLeg”:{“CarrierIds”:[1793],”OriginId”:65698,”DestinationId”:50290,”DepartureDate”:”2012-12-07T00:00:00”},”InboundLeg”:{“CarrierIds”:[1793],”OriginId”:50290,”DestinationId”:65698,”DepartureDate”:”2012-12-10T00:00:00”}}… | | Carriers | “Carriers”:[{“CarrierId”:1793,”Name”:”United”}]} | | Places | “Places”:[{“PlaceId”:50290,”Name”:”New York Newark”,”Type”:”Station”},{“PlaceId”:65633,”Name”:”New York La Guardia”,”Type”:”Station”},{“PlaceId”:65698,”Name”:”Londres Heathrow”,”Type”:”Station”}] | |

### Return Search Month to Month

|  |
| --- |
| **Request - http://partners.api.skyscanner.net/apiservices/browsedates/v1.0/GB/GBP/en-GB/LON/JFK/2012-01/2012-02** |
| |  |  | | --- | --- | | country | GB | | currency | GBP | | locale | en-GB | | originPlace | LON | | destinationPlace | JFK | | outboundPartialDate | 2012-01 | | inboundPartialDate | 2012-02 | |
| **Response** |
| |  |  | | --- | --- | | Dates | {“Dates”:{“OutboundDates”:[{“PartialDate”:”2012-12-01”,”QuoteIds”:[1] },{“PartialDate”:”2012-12-02”,”QuoteIds”:[2]}… | | Quotes | “Quotes”:[{“QuoteId”:1,”MinPrice”:492.07,”Direct”:false,”AgentIds”:[2720687],”OutboundLeg”:{“CarrierIds”:[1923],”OriginId”:82398,”DestinationId”:50290,”DepartureDate”:”2012-12-01T00:00:00”}},{“QuoteId”:2,… | | Carriers | “Carriers”:[{“CarrierId”:1923,”Name”:”United”}]} | | Places | “Places”:[{“PlaceId”:50290,”Name”:”New York Newark”,”Type”:”Station”},{“PlaceId”:65633,”Name”:”New York La Guardia”,”Type”:”Station”},{“PlaceId”:65698,”Name”:”Londres Heathrow”,”Type”:”Station”}] | |

### 

### Return Search Day to Day

|  |
| --- |
| **Request - http://partners.api.skyscanner.net/apiservices/browsedates/v1.0/GB/GBP/en-GB/LON/JFK/2012-01-05/2012-02-06** |
| |  |  | | --- | --- | | country | GB | | currency | GBP | | locale | en-GB | | originPlace | LON | | destinationPlace | JFK | | outboundPartialDate | 2012-01 | | inboundPartialDate | 2012-02 | |
| **Response** |
| |  |  | | --- | --- | | Dates | {“Dates”:{“OutboundDates”:[{“PartialDate”:”2012-12-01”,”QuoteIds”:[1] },{“PartialDate”:”2012-12-02”,”QuoteIds”:[2]}… | | Quotes | “Quotes”:[{“QuoteId”:1,”MinPrice”:492.07,”Direct”:false,”AgentIds”:[2720687],”OutboundLeg”:{“CarrierIds”:[1923],”OriginId”:82398,”DestinationId”:50290,”DepartureDate”:”2012-12-01T00:00:00”}},{“QuoteId”:2,… | | Carriers | “Carriers”:[{“CarrierId”:1923,”Name”:”United”}]} | | Places | “Places”:[{“PlaceId”:50290,”Name”:”New York Newark”,”Type”:”Station”},{“PlaceId”:65633,”Name”:”New York La Guardia”,”Type”:”Station”},{“PlaceId”:65698,”Name”:”Londres Heathrow”,”Type”:”Station”}] | |