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# Introduction

The Browse Routes Service provides an aggregated view of flight and price data for many origins, or many destinations over many time frames, returning the cheapest quotes, where available. The prices returned are the cheapest price per day from our cache data.

# Query Types

The query types are:

* Country to Anywhere (which other countries can be reached from the supplied country)
* City to Anywhere (which countries can be reached from the supplied city)
* Airport to Anywhere (which countries can be reached from the supplied airport)
* Country to Country (which destination airports are available from the origin country)
* City to Country (which destinations within the country are available from the given city)
* Airport to Country (which destinations within the country are available from the given airport)
* Country to City (the reverse)
* Country to Airport (the reverse)

Examples of questions that can be answered are:

* Find me the cheapest price for each available route from London to France for the next year. This gives the cheapest known price for each airport in France.
* Find me the cheapest price for each available route from London to anywhere departing in January and returning in February. This gives the cheapest known price for each destination country that can be reached from London.

### 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/browseroutes/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>.

#### 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.
* A Country Code – e.g. ‘UK’. As per Skyscanner Country Code above.
* ‘anywhere’ – indicates an unspecified place

Valid Date Range

Can be one of:

* Specific day in ISO format – e.g. ‘YYYY-MM-DD’
* Specific month in ISO format – e.g. ‘YYYY-MM’
* ‘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 of specificity as the outbound date e.g. from 2012-10-15 to 2012-10-18 is valid but from 2012-10-15 to 2012-11 is not.

# 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** |
| Routes | A detail of all available routes, each with a list of QuoteIds which pertain to that route. |
| Quotes | The cheapest Quote for each route for the date period. |
| Places | A normalized cross reference lookup of Place information, used by the Routes and Quotes. |
| 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. |

### 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

### Country to Anywhere

|  |
| --- |
| **Request - http://partners.api.skyscanner.net/apiservices/browseroutes/v1.0/GB/GBP/en-GB/UK/anywhere/anytime/anytime** |
| |  |  | | --- | --- | | Country | GB | | Currency | GBP | | Locale | en-GB | | originPlace | UK | | destinationPlace | anywhere | | outboundPartialDate | anytime | | inboundPartialDate | anytime | |
| **Response** |
| |  |  | | --- | --- | | Routes | {"Routes":[{"OriginId":1803,"DestinationId":837},{"OriginId":1803,"DestinationId":838},… | | Quotes | "Quotes":[{"QuoteId":1,"MinPrice":69.5566,"Direct":true,"AgentIds":[2363321],"OutboundLeg":{"CarrierIds":[1050],"OriginId":82398,"DestinationId":49369,"DepartureDate":"2012-12-12T00:00:00"},"InboundLeg":{"CarrierIds":[1050],"OriginId":49369,"DestinationId":65655,"DepartureDate":"2012-12-14T00:00:00"}}],… | | Carriers | "Carriers":[{"CarrierId":1793,"Name":"United"}]} | | Places | "Places":[{"PlaceId":837,"Name":"Émirats Arabes Unis","Type":"Country"},{"PlaceId":838,"Name":"Afghanistan","Type":"Country"},… | | Urls | "Urls": {"DrillDown": {"Uri": "/apiservices/browseroutes/v1.0/GB/GBP/en-GB/UK-sky/(DestinationId)-sky48/anytime/anytime","Method": "GET"}} | |

### City to Anywhere

|  |
| --- |
| **Request - http://partners.api.skyscanner.net/apiservices/browseroutes/v1.0/GB/GBP/en-GB/LON/anywhere/anytime/anytime** |
| |  |  | | --- | --- | | Country | GB | | Currency | GBP | | locale | en-GB | | originPlace | LON | | destinationPlace | anywhere | | outboundPartialDate | anytime | | inboundPartialDate | anytime | |
| **Response** |
| |  |  | | --- | --- | | Routes | {"Routes":[{"OriginId":3169460,"DestinationId":845},{"OriginId":3169460,"DestinationId":838},… | | Quotes | "Quotes":[{"QuoteId":1,"MinPrice":1937.2175,"Direct":true,"AgentIds":[4132306],"OutboundLeg":{"CarrierIds":[1793],"OriginId":65698,"DestinationId":58436,"DepartureDate":"2012-12-01T00:00:00"},"InboundLeg":{"CarrierIds":[1793],"OriginId":58436,"DestinationId":65698,"DepartureDate":"2012-12-01T00:00:00"}},… | | Carriers | "Carriers":[{"CarrierId":1793,"Name":"United"}]}… | | Places | "Places":[{"PlaceId":837,"Name":"Émirats Arabes Unis","Type":"Country"},{"PlaceId":838,"Name":"Afghanistan","Type":"Country"}… | | Urls | "Urls": {"DrillDown": {"Uri": "/apiservices/browseroutes/v1.0/GB/GBP/en/LOND-sky/(DestinationId)-sky48/anytime/anytime","Method": "GET"}} | |

### City to Country

|  |
| --- |
| **Request - http://partners.api.skyscanner.net/apiservices/browseroutes/v1.0/GB/GBP/en-GB/LON/UK/anytime/anytime** |
| |  |  | | --- | --- | | Country | GB | | Currency | GBP | | locale | en-GB | | originPlace | LON | | destinationPlace | UK | | outboundPartialDate | anytime | | inboundPartialDate | anytime | |
| **Response** |
| |  |  | | --- | --- | | Routes | {"Routes":[{"OriginId":1811,"DestinationId":837},{"OriginId":1811,"DestinationId":838}… | | Quotes | "Quotes":[{"QuoteId":1,"MinPrice":69.5566,"Direct":true,"AgentIds":[2363321],"OutboundLeg":{"CarrierIds":[1050],"OriginId":82398,"DestinationId":49369,"DepartureDate":"2012-12-12T00:00:00"},"InboundLeg":{"CarrierIds":[1050],"OriginId":49369,"DestinationId":65655,"DepartureDate":"2012-12-14T00:00:00"}}], | | Carriers | "Carriers":[{"CarrierId":1050,"Name":"easyJet"}]} | | Places | "Places":[{"PlaceId":40074,"Name":"Aberdeen","Type":"Station"},{"PlaceId":40105,"Name":"Aurigny","Type":"Station"} … | | Urls | "Urls": {"DrillDown": {"Uri": "/apiservices/browsedates/v1.0/GB/GBP/en-GB/LOND-sky/(DestinationId)-sky48/anytime/anytime","Method": "GET"}} | |