# Jetabroad Flight Search API Version 1

## Revision History

3 December 2010 – original version

31 March 2011 – clarified that origin/destination should be city codes to search all airports in cities with multiple airports.
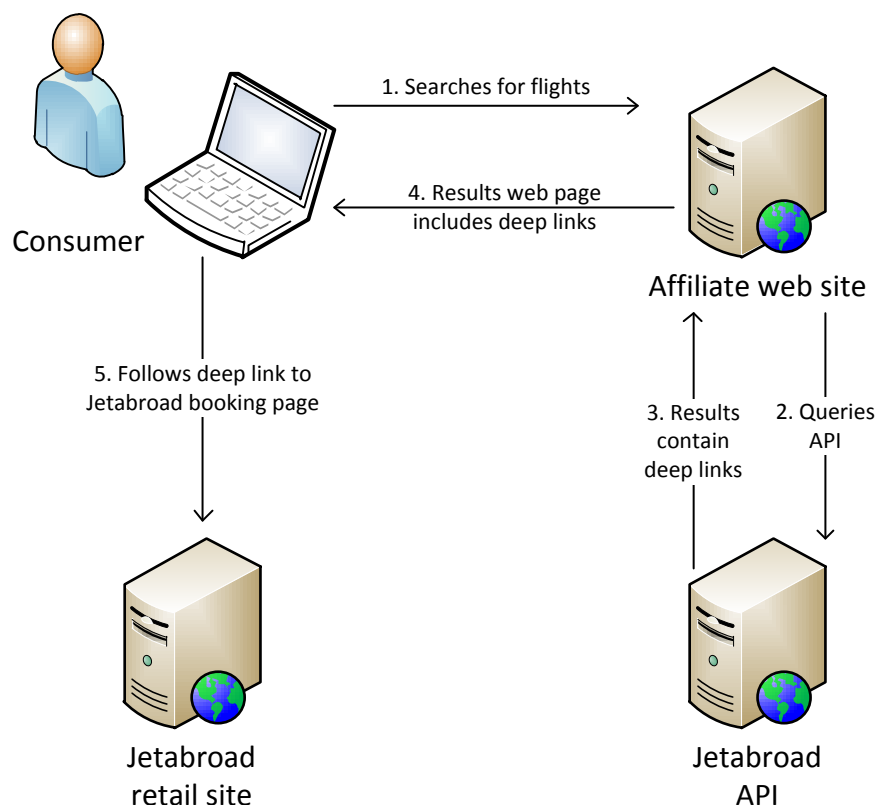
19 September 2011 – documented restrictions on search dates

6 February  2012 – documented new field attributeToAffiliate

## Overview

The API allows Jetabroad's metasearch affiliates to query for a one-way or return itinerary, to receive a list of flights, and to deep-link end users directly to Jetabroad's booking page for that flight.

A high-level view of the intended usage scenario is illustrated below:



## Request data format

| Field name | Example | Notes |
|---|---|---|
| searchRequest | | Container for XML and SOAP |

| | | messages. Not used for JSON. |
|---|---|---|
| affiliateCode | ABCD | Code provided by your Jetabroad commercial contact for use with the API. |
| from | SYD | Origin port IATA code. For cities with multiple airports, send the city code (e.g. LON or NYC). |
| to | LON | Destination port IATA code. For cities with multiple airports, send the city code (e.g. LON or NYC). |
| departDate | 2011-07-22 | yyyy-mm-dd (see restrictions below) |
| returnDate | 2011-08-01 | Optional, for a one way flight. yyyy-mm-dd |
| adults | 2 | At least 1 adult is required |
| children | 1 | |
| infants | 1 | |
| cabinClass | Economy | One of: "Economy", "Premium Economy", "Business", "Mixed Business/Economy", "First", "Mixed First/Business" |
| oneWayOrReturn | Return | Either "OneWay" or "Return" |
| currencyCode | AUD | One of: AUD GBP EUR NZD USD CAD HKD SGD ZAR |
| attributeToAffiliate | whatever | Optional string (max length 100 characters) for your tracking purposes. Will appear in the Affiliate Bookings report. |

## Response data format

| Field name | Example | Notes |
|---|---|---|
| searchResult | | Container for XML and SOAP messages. Not used for JSON. |
| flightItinerary | | Repeated for each flight option in the results |
| price | | A container for price details. There is only a single price field for each flightItinerary. |
| includesTax | true | Indicates that the totalAmount and totalPricePer… fields includes taxes. Will always be true in this API. |
| currencyCode | AUD | The requested currency |
| amount | 1000.00 | The base amount for all passengers excluding taxes and fees. |
| pricePerAdult | 1000.00 | The base amount per adult |

| | | |
|---|---|---|
| | | excluding taxes and fees. |
| pricePerChild | 1000.00 | The base amount per child excluding taxes and fees. Will not be present if zero children were requested. |
| pricePerInfant | 1000.00 | The base amount per infant excluding taxes and fees. Will not be present if zero infants were requested. |
| pricePerPassenger | 1000.00 | The base amount for all passengers divided by the number of passengers. |
| totalAmount | 1000.00 | The total amount, for all passengers, including all taxes and fees. |
| totalPricePerAdult | 1000.00 | The total amount per adult. |
| totalPricePerChild | 1000.00 | The total amount per child. Will not be present if zero children were requested. |
| totalPricePerInfant | 1000.00 | The total amount per infant. Will not be present if zero infants were requested. |
| totalPricePerPassenger | 1000.00 | The total amount divided by the number of passengers. |
| name | Economy | The cabin class of this result |
| outboundLeg | | Details on the outbound leg. For one-way flights, this is the only leg returned. |
| segments | | Collection of segments involved in the leg. Will contain one or more flightSegments. |
| flightSegment | | Container for details of a single segment |
| flightClass | Economy | One of: "Economy", "Premium Economy", "Business", "First" |
| flightNumber | QF12 | Flight number, including the airline code |
| departPortCode | SYD | IATA code of the departure airport |
| arrivePortCode | LHR | IATA code of the arrival airport |
| departDttm | 2011-07-22T08:30:00 | Departure time in local time at departure port. ISO 8601 format. |
| arriveDttm | 2011-08-02T19:15:00 | Arrival time in local time at arrival port. ISO 8601 format. |
| returnLeg | | Details on the return leg, if a this is return query. |
| *As above* | | Same contents as outboundLeg |
| deeplinkURL | http://example/?example | A URL that the customer can be directed to for booking this flightItinerary with Jetabroad. |

# Important usage notes

- Results must not be cached for different end users. (The reason is that each search request creates a unique session for the end user on the Jetabroad site. The session identifier is embedded in the deep link URL. Sharing it between different users will not work.)
- The deep link URL is not "hackable". It should be presented as-is to the end user. This allows Jetabroad to maintain future compatibility.
- HTTP compression must be used for production applications. (The service does not currently enforce this requirement, but it may do so in future.)
- Request date restrictions:
  - The earliest date you can search is the current day for domestic Australia/NZ or 3 days from the current day for all other itineraries.
  - The furthest date in the future you can search is the end of the 11th month following the end of the current month – e.g. on 2011-09-19, the latest date you can search for departure or return is 2012-08-31.

# Accessing the API

The API can be accessed by XML, JSON, or SOAP.

## XML

POST to http://api.jetabroad.com/FlightSearchV1/ with Content-Type: application/xml.

An example request, including headers:

```
POST http://api.jetabroad.com/FlightSearchV1/ HTTP/1.1
Host: api.jetabroad.com
Accept: */*
Accept-Encoding: deflate, gzip
Connection: Keep-Alive
Content-Type: application/xml
Content-Length: 421

<searchRequest xmlns="http://api.jetabroad.com/FlightSearchV1">
  <affiliateCode>TEST</affiliateCode>
  <from>SYD</from>
  <to>LON</to>
  <departDate>2011-07-22</departDate>
  <returnDate>2011-08-01</returnDate>
  <adults>2</adults>
  <children>1</children>
  <infants>1</infants>
  <cabinClass>Economy</cabinClass>
  <oneWayOrReturn>Return</oneWayOrReturn>
  <currencyCode>AUD</currencyCode>
  <attributeToAffiliate>something</attributeToAffiliate>
</searchRequest>
```

## JSON

POST to http://api.jetabroad.com/FlightSearchV1/ with Content-Type: application/json and Accept: application/json.

An example request, including headers:

```
POST http://api.jetabroad.com/FlightSearchV1/ HTTP/1.1
Host: api.jetabroad.com
Accept-Encoding: deflate, gzip
Connection: Keep-Alive
Content-Type: application/json
```

```
Accept: application/json
Content-Length: 241

{
        "affiliateCode":"TEST",
        "from":"SYD",
        "to":"BNE",
        "departDate":"2011-07-22",
        "returnDate":"2011-08-01",
        "adults":1,
        "children":0,
        "infants":0,
        "cabinClass":"Economy",
        "oneWayOrReturn":"Return",
        "currencyCode":"EUR"
        "attributeToAffiliate":"something"
}
```

## SOAP

The WSDL description of the service is at http://api.jetabroad.com/FlightSearchV1/soap?WSDL

The endpoint for the SOAP service is http://api.jetabroad.com/FlightSearchV1/soap