

**VariFlight**

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# API docs

## Flight Transfer Plan V1.0

An interface for querying flight transfer plans between global cities with at most one stop.

produced by

**VariFlight**

With a vision of "living on time", a  
global leading aviation data intelligence  
company

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1.0

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This documentation is intended to provide developers with a comprehensive understanding of our API endpoints, methods, requests, and responses, enabling them to effectively access data provided by Variflight.

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## Introduction

This article describes how to use the Flight Transfer Plan API, version 1.0.

Based on our global airlines schedule data.

## Notes

Returned content:

The returned content of interface should have a URL Decoding. And the returned flight time are all local flight time.

## Authentication

The interface uses both token and IP for concurrent verification.

Token generation algorithm:

In the URL, all request parameters (excluding the token) are sorted in ascending order by KEY, the parameter names are connected in lowercase with the '&' symbol, then connected with the value of the **Registration code**, and then encrypted twice using MD5 (32-bit lowercase) encryption.

**Registration code:** Please obtain the registration code from the administrator of VariFlight. It is necessary for verification during the request process by both parties. Please be careful not to disclose it to the public.

Example (PHP):

```
ksort($data);
foreach($data as $k=>$v){
    $strtomd5[]=$k.'='.$v;
```

```

    }
    $token= md5(md5(implode('&',$strtomd5).$appsecurity));

```

**Note:** \$appsecurity=Registration code

## API Endpoints

The base URL for all requests is:

```
https://open-al.variflight.com/api/transfer?
```

The way to request: **GET**

The format of return: **JSON**

### Query : Route + Date

Request parameters:

**depcity** : Departure city iata code

**arrcity** : Arrival city iata code

**deptime** : Departure date (yyyy-mm-dd, not earlier than the current local time at the departure city.)

**arrdate (optional)** : Arrival date (yyyy-mm-dd, at most and defaults to three days after local departure date. )

**appid** : Appid (Obtain from your sales)

**token** : Token

**lang** : Required parameter and the value is 'en'

Example URL:

```
http://open-al.variflight.com/api/transfer?appid=10176&arrcity=DXB&depcity=K
UL&deptime=2024-06-01&lang=en&token=$token
```

How to spell token:

**Step1: Input parameters**

```
appid=10176&arrcity=DXB&depcity=KUL&depdate=2024-06-01&lang=en
```

**Step2: Encrypted string with lower case parameters sort**

```
$str= 'appid=10176&arrcity=DXB&depcity=KUL&depdate=2024-06-01&lang=en'
```

**Step3: Use Registration code**

```
$appsecurity= '56934765683fc'
```

**Step4: Spell token**

```
token=md5(md5($str.$appsecurity))
```

In this example, token= 731fcc493019854cdfa100faf95b9448

**Note:** ‘.’ symbol is the connectors in PHP

## Error Responses

Return parameter	Description
1	Wait for auditing
2	The visiting ip have not been joined in White List
3	Lack of parameters or parameter identification failed
4	No data permissions
10	No data
0	User does not exist
11	Unknown error

# Return Parameter Examples

This section presents two examples of return parameters

## Example 1: Failed return

```
{  
  error_code: 3,  
  error: " wrong departure city format "  
}
```

## Example 2: Successful return

Successful search results will present two types of itineraries:

- **Direct flights:** The departure and arrival cities exactly match the request parameters.
- **One-stop connecting flights:** The flight is composed of multiple two segments, including one stop.

Examples of both Itinerary types are showed below:

### Direct flights

```
[  
  {  
    FlightNo: "EK342",  
    Service: 1,  
    DepTime: "2024-06-01 02:05:00",  
    DepTimeZone: 480,  
    ArrTime: "2024-06-01 05:30:00",  
    ArrTimeZone: 240,  
    AverageDelayTime: 2366,  
    DepCity: "Kuala Lumpur",  
    DepCityZh: "吉隆坡",
```

```
    DepCityCode: "KUL",  
    DepAirport: "Sultan Abdul Aziz Shah",  
    DepAirportZh: "苏丹阿都阿兹沙",  
    DepAirportCode: "SZB",  
    DepTerminal: "T3",  
    ArrCity: "Dubai",  
    ArrCityZh: "迪拜",  
    ArrCityCode: "DXB",  
    ArrAirport: "Dubai",  
    ArrAirportZh: "迪拜",  
    ArrAirportCode: "DXB",  
    ArrTerminal: ""  
  }  
]
```

## One-stop flight

```
[
  {
    FlightNo: "FY1432",
    Service: 1,
    DepTime: "2024-06-01 16:00:00",
    DepTimeZone: 480,
    ArrTime: "2024-06-01 17:05:00",
    ArrTimeZone: 480,
    AverageDelayTime: 996,
    DepCity: "Kuala Lumpur",
    DepCityZh: "吉隆坡",
    DepCityCode: "KUL",
    DepAirport: "Sultan Abdul Aziz Shah",
    DepAirportZh: "苏丹阿都阿兹沙",
    DepAirportCode: "SZB",
    DepTerminal: "T3",
    ArrCity: "Penang",
    ArrCityZh: "槟城",
    ArrCityCode: "PEN",
    ArrAirport: "Penang",
    ArrAirportZh: "槟城",
    ArrAirportCode: "Pen",
    ArrTerminal: "D"
  },
  {
    FlightNo: "FZ1604",
    Service: 1,
```

```

    DepTime: "2024-06-01 22:10:00",
    DepTimeZone: 480,
    ArrTime: "2024-06-02 05:30:00",
    ArrTimeZone: 240,
    AverageDelayTime: -2640,
    DepCity: "Penang",
    DepCityZh: "槟城",
    DepCityCode: "PEN",
    DepAirport: "Penang",
    DepAirportZh: "槟城",
    DepAirportCode: "PEN",
    DepTerminal: null,
    ArrCity: "Dubai",
    ArrCityZh: "迪拜",
    ArrCityCode: "DXB",
    ArrAirport: "Dubai",
    ArrAirportZh: "迪拜",
    ArrAirportCode: "DXB",
    ArrTerminal: ""
  },
]

```

## Return Parameter Details

Return parameter	Description
FlightNo	Flight number
Service	Type of aircraft ( 1: Passenger; 2: Freight )

DepTime	Departure time
DepTimeZone	Departure city time zone
ArrTime	Arrival time
ArrTimeZone	Arrival city time zone
AverageDelayTime	Average delay time for the last 7 flights(in seconds, positive numbers indicate delay, negative numbers indicate early arrive)
DepCity	Departure city name (in English)
DepCityZh	Departure city name (in Chinese)
DepCityCode	Departure city iata code
DepAirport	Departure airport name (in English)
DepAirportZh	Departure airport name (in Chinese)
DepAirportCode	Departure airport IATA code
DepTerminal	Departure airport terminal
ArrCity	Arrival city name (in English)
ArrCityZh	Arrival city name (in Chinese)
ArrAirport	Arrival airport name (in English)
ArrAirportZh	Arrival airport name (in Chinese)
ArrAirportCode	Arrival airport IATA code
ArrTerminal	Arrival airport terminal