

VariFlight

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API docs

Previous Flight V3.0

Query the directly preceding flight for a given flight.

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VariFlight

With a vision of "living on time" , a
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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 Previous Flight API, version 3.0.

The interface supports querying information for a preceding flight.

Please note the following:

1. The API response provides information for only the first preceding flight segment.
2. All times are in local departure/arrival 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/preflight?
```

The way to request: **GET**

The format of return: **JSON**

Query : Flight number + Dep&arr airport IATA code + Flight date

Request parameters:

fnum	: Flight number
dep	: Departure airport IATA code
arr	: Arrival airport IATA code
date	: Flight departure date (local time, yyyy-mm-dd)
lang	: Language (English = en)
appid	: Appid (Obtain from your sales)
token	: Token

Example URL:

```
http://open-al.variflight.com/api/preflight?appid=10176&fnum=DL389&date=2025-01-18&dep=DTW&arr=PVG&lang=en&token=$token
```

How to spell token:

Step1: Input parameters

appid=10176&fnum=DL389&date=2025-01-18&dep=DTW&arr=PVG&lang=en

Step2: Encrypted string with lower case parameters sort

\$str= '10176&fnum=DL389&date=2025-01-18&dep=DTW&arr=PVG&lang=en'

Step3: Use Registration code

\$appsecurity= '56934765683fc'

Step4: Spell token

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

In this example, token= 0ab2cbaf825a2dfb9f4a07a051691a51

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

Example 1: Failed return

```
{
  error_code: 3,
  error: " date is not valid "
}
```

Example 2: Successful return

```
[
  {
    FlightState: "arrival",
    FlightNo: "DL276",
    org_timezone: "32400",
    dst_timezone: "-18000",
    FlightDepcode: "HND",
    FlightArrcode: "DTW",
    FlightDeptimePlanDate: "2025-01-17 16:25",
    FlightArrtimePlanDate: "2025-01-17 14:28",
    FlightDeptimeReadyDate: "2025-01-17 16:25",
    FlightArrtimeReadyDate: "2025-01-17 13:54",
    FlightDeptimeDate: "2025-01-17 16:49",
    FlightArrtimeDate: "2025-01-17 13:50",
    FlightDep: "Tokyo",
    FlightDepAirport: "Tokyo",
    FlightArr: "Detroit, Michigan",
    FlightArrAirport: "Detroit Metropolitan wayne County"
  }
]
```

Return Parameter Details

Return parameter	Description
FlightState	<p>Flight status</p> <p>(schedule / delay / cancel / deiversion / return / departure / arrival / diverted flight departure / diverted flight cancel / diverted flight arrival / returned flight departure / returned flight cancel / returned flight arrival / cancel in advance)</p>
FlightNo	Flight number
org_timezone	<p>Origin time zone</p> <p>(unit: seconds(s), divide by 3600 to obtaint the offset from UTC in hours, e.g., 32400 s corresponds to UTC+9)</p>
dst_timezone	<p>Destination time zone</p> <p>(unit: seconds(s), divide by 3600 to obtaint the offset from UTC in hours, e.g., -18000 s corresponds to UTC-5)</p>
FlightDepcode	Flight departure airport IATA code
FlightArrcode	Flight arrival airport IATA code
FlightDeptimePlanDate	Scheduled departure time (yyyy-mm-dd hh:mm)
FlightArrtimePlanDate	Scheduled arrival time (yyyy-mm-dd hh:mm)
FlightDeptimeReadyDate	Estimated departure time (yyyy-mm-dd hh:mm)
FlightArrtimeReadyDate	Estimated arrival time (yyyy-mm-dd hh:mm)
FlightDeptimeDate	Actual departure time (yyyy-mm-dd hh:mm)
FlightArrtimeDate	Actual arrival time (yyyy-mm-dd hh:mm)
FlightDep	Departure airport city

FlightDepAirport	Departure airport
FlightArr	Arrival airport city
FlightArrAirport	Arrival airport