

Swedavia FlightInfo API



apideveloper.swedavia.se



Using the FlightInfo API V2

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1 THE FLIGHTINFO API

The FlightInfo API offers information about arriving and departing flights to and from Swedavias airports.

1.1 Last-Modified

All responses from the API contain two headers to indicate when the data was last updated. **Last-Modified** contains a timestamp in UTC format. **Last-Modified-InMinutes** returns the time in minutes. This value is calculated server side based upon Last-Modified datetime.

These values reflect when the underlying flight data globally was updated.

1.2 Date and time values

Datetimes are returned in UTC format.

1.3 Airline and airport codes

The aviation sector often makes use of IATA codes to represent airports and cities. The codes are maintained by the organization IATA. Several of the endpoints at the FlightInfo API accepts IATA codes as parameters or includes them in the response. Codes are typically containing three characters. While each airport has its own code, some cities with multiple airports also have a unique code allocated.

1.3.1 IATA codes for Swedavia's airports

Airport	IATA code
Stockholm Arlanda Airport	ARN
Bromma Stockholm Airport	BMA
Göteborg Landvetter Airport	GOT
Malmö Airport	MMX
Luleå Airport	LLA
Umeå Airport	UME
Åre Östersund Airport	OSD
Visby Airport	VBY
Ronneby Airport	RNB
Kiruna Airport	KRN

2 ENDPOINTS

This section lists all available endpoints at the FlightInfo API. Further, input parameters and responses are explained.

2.1 Arrivals

The endpoint serves the client with a list of flights, at a Swedavia airport, which arrives at a specified date. URL parameters are marked with curly brackets. The API generally saves flight info for a time span between 7 days back in time to 90 days into the future.

```
GET
https://api.swedavia.se/flightinfo/v2/{airportIATA}/arrivals/{date}
```

2.1.1 Request Parameters

<i>Parameter</i>	<i>Data Type</i>	<i>Parameter Type</i>	<i>Mandatory</i>	<i>Description</i>
<i>AirportIATA</i>	String	URL	Yes	The IATA code of the airport where arrivals are requested from. See section 1.3.1 for valid airports.
<i>Date</i>	String	URL	Yes	Date with format yyyy-mm-dd. Should be in UTC-time.

2.1.2 Response

See the FlightInfo models which can be found in the appendix to this document.

2.2 Departures

The endpoint serves the client with a list of flights, at a Swedavia airport, which depart at a specified date. URL parameters are marked with curly brackets. The API generally saves flight info for a time span between 7 days back in time to 90 days into the future.

```
GET
https://api.swedavia.se/flightinfo/v2/{airportIATA}/departures/{date}
```

2.2.1 Request Parameters

Same as 2.1.1

2.2.2 Response

See the FlightInfo models which can be found in the appendix to this document.

2.3 Query

This endpoint gives the client more flexibility in specifying what kind of flight data that should be returned. Based on a couple of fields and available operators, the client can construct a query which filters data to the desired delimitation.

GET

[https://api.swedavia.se/flightinfo/v2/query\[?filter\]\[&continuation token\]\[&count\]](https://api.swedavia.se/flightinfo/v2/query[?filter][&continuation token][&count])

2.3.1 Request Parameters

<i>Parameter</i>	<i>Data Type</i>	<i>Parameter Type</i>	<i>Required</i>	<i>Description</i>
<i>Filter</i>	String	Query string	No	OData filter expression. Omit to get all flights.
<i>ContinuationToken</i>	String	Query string	No	Token used for getting next page or flights changed since last request.
<i>Count</i>	String	Query string	No	Number of items to return. Default 1000. Max allowed 1000

2.3.1.1 *Filter*

The following fields could be for filtering within the OData expression.

- Airport
- FlightType
- Scheduled
- FlightId

The filter expression supports the following operators.

- and
- or
- eq

2.3.1.2 *ContinuationToken*

Use the value from your last result to get updated flights.
If no flights have been updated, you will get a result without flights. Due to compression the continuation token needs to be URL-escaped when submitted to the API from the client.

2.3.2 Examples

Departures from Arlanda 2018-02-09

```
airport eq 'ARN' and scheduled eq '180209' and flightType eq 'D'
```

Arrivals from Arlanda and Visby 2018-02-09

```
(airport eq 'ARN' or airport eq 'VBY') and flightType eq 'A' and  
scheduled eq '180209'
```

Get single flight

```
airport eq 'ARN' and scheduled eq '180209' and flightType eq 'D'  
and flightId eq 'SK007'
```

3 **APPENDIX - FLIGHTINFO MODEL**

Arrivals

Property	Type	Nullable	Description
To			Arriving to
ArrivalAirportIata	String		Iata code for arrival airport
ArrivalAirportIcao	String		Icao code for arrival airport
ArrivalAirportSwedish	String		Arrival airport name in Swedish
ArrivalAirportEnglish	String		Arrival airport name in English
FlightArrivalDate	String		Arrival date in UTC
NumberOfFlights	Integer		Number of flights in response
Flights	List`1		A list with zero or more flights
FlightId	String		Flight number
DepartureAirportSwedish	String		Departure airport name in Swedish
DepartureAirportEnglish	String		Departure airport name in English
AirlineOperator			
IATA	String		The iata code of the party operating the flight
ICAO	String		The iata code of the party operating the flight
Name	String		The party operating the flight
ArrivalTime			Arrival time information
ScheduledUtc	DateTime	Yes	Scheduled time of arrival in UTC
EstimatedUtc	DateTime	Yes	Estimated time of arrival in UTC
ActualUtc	DateTime	Yes	Actual time of arrival in UTC
LocationAndStatus			
Terminal	String		Terminal identifier
Gate	String		Uniquely defines one gate at the airport.
FlightLegStatus	String	Yes	<p>The status of a FlightLeg. Possible values are:</p> <ul style="list-style-type: none"> SCH Scheduled FPL Flight Plan FLS Flight Suspended SEQ Sequenced ACT Active CAN Cancelled LAN Landed RER Rerouted DIV Diverted DEL Deleted

FlightLegStatusSwedish	String		Status text in Swedish
FlightLegStatusEnglish	String		Status text in English
Baggage			Information about where bags can be found.
EstimatedFirstBagUtc	DateTime	Yes	
BaggageClaimUnit	String		Baggage belt
FirstBagUtc	DateTime	Yes	UTC time for first bag on baggage belt
LastBagUtc	DateTime	Yes	UTC time for last bag on baggage belt
CodeShareData	String[]		Alternate flightId
FlightLegIdentifier			A set of fields that uniquely identifies a FlightLeg
IfpId	String		Initial Flight plan Identifier
Callsign	String		Uniquely identifies an aircraft using the airspace around an airport
AircraftRegistration	String		Unique aircraft identifier
SsrCode	String		Secondary Surveillance Radar Code
FlightId	String		Flight number
FlightDepartureDateUtc	DateTime	Yes	Departure date in Utc
DepartureAirportIata	String		Departure airport Iata code
ArrivalAirportIata	String		Arrival airport Iata code
DepartureAirportIcao	String		Departure airport Icao
ArrivalAirportIcao	String		Arrival airport Icao
RemarksEnglish	[]		Remarks intended for FIDS screens in English
Text	String		
Indicator	String		
RemarksSwedish	[]		Remarks intended for FIDS screens in Swedish
Text	String		
Indicator	String		
ViaDestinations	[]		A list of airports a flight will land on the way to the (final) destination airport
AirportIATA	String		
AirportSwedish	String		
AirportEnglish	String		
DIIndicator	String		Indicator showing if the flight is domestic (D), international (I) or Schengen (S).

Departures

Property	Type	Nullable	Description
From			Departure from
DepartureAirportIata	String		Iata code for departure airport
DepartureAirportIcao	String		Icao code for departure airport
DepartureAirportSwedish	String		Departure airport in swedish
DepartureAirportEnglish	String		Departure airport in english
FlightDepartureDate	String		Departure date in UTC
NumberOfFlights	Integer		Number of flights in response
Flights	List`1		A list with one or more flights
FlightId	String		Flight number
ArrivalAirportSwedish	String		Arrival airport in Swedish.
ArrivalAirportEnglish	String		Arrival airport in English.
AirlineOperator			
IATA	String		The iata code of the party operating the flight
ICAO	String		The iata code of the party operating the flight
Name	String		The party operating the flight
DepartureTime			
ScheduledUtc	DateTime	Yes	Scheduled time of departure in UTC
EstimatedUtc	DateTime	Yes	Estimated time of departure in UTC
ActualUtc	DateTime	Yes	Actual time of departure in UTC
LocationAndStatus			
Terminal	String		Terminal identifier
Gate	String		Uniquely defines one gate at the airport.
GateAction	String		The stage in the boarding. Open O or Closed C.
GateActionSwedish	String		Gate stage in Swedish
GateActionEnglish	String		Gate stage in English
GateOpenUtc	DateTime	Yes	The UTC time at which the gate is opened for passenger processing
GateCloseUtc	DateTime	Yes	The UTC time at which the gate is closed for passenger processing.
FlightLegStatus	String		The status of a FlightLeg
FlightLegStatusSwedish	String		Status in Swedish
FlightLegStatusEnglish	String		Status in English

CheckIn			
CheckInStatus	String		The check in status. Open O or Closed C
CheckInStatusSwedish	String		Check in status in Swedish.
CheckInStatusEnglish	String		Check in status in English.
CheckInDeskFrom	Integer	Yes	The first check in desk code
CheckInDeskTo	Integer	Yes	The last check in desk code
CodeShareData	String[]		Alternate flightId
FlightLegIdentifier			
IfpId	String		Initial Flight plan Identifier
Callsign	String		Uniquely identifies an aircraft using the airspace around an airport
AircraftRegistration	String		Unique aircraft identifier
SsrCode	String		Secondary Surveillance Radar Code
FlightId	String		Flight number
FlightDepartureDateUtc	DateTime	Yes	Departure date in Utc
DepartureAirportIata	String		Departure airport Iata code
ArrivalAirportIata	String		Arrival airport Iata code
DepartureAirportIcao	String		Departure airport Icao
ArrivalAirportIcao	String		Arrival airport Icao
ViaDestinations	[]		A list of airports a flight will land on the way to the (final) destination airport
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RemarksEnglish	[]		Remarks intended for FIDS screens in English
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Indicator	String		
RemarksSwedish	[]		Remarks intended for FIDS screens in Swedish
Text	String		
Indicator	String		
DIIndicator	String		Indicator showing if the flight is domestic (D), international (I) or Schengen (S).