

# Swedavia FlightInfo Operational API

v1.0



[apideveloper.swedavia.se](https://apideveloper.swedavia.se)



# Using the Operational FlightInfo API

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## 1 THE OPERATIONAL FLIGHTINFO API

The Operational FlightInfo API offers information about arriving and departing flights to and from Swedavia airports. In addition to the regular FlightInfo API, the FlightInfo Operational API contains further data which could be of interest for ground handling, airlines or any other airport related operator.

### 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 Operational 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

### 1.4 Restricted access

Some data in the FlightInfo Operational API is restricted, which means that access is only given to specific users. As default, this access is not provided.

See in the appendix what information that is limited.

## 2 ENDPOINTS

This section lists all available endpoints at the FlightInfo Operational 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/FlightInfoOperationalPax/v1/flights/{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 Operational 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/FlightInfoOperationalPax/v1/flights/{airportIATA}/departures/{date}`

#### 2.2.1 Request Parameters

Same as 2.1.1

### 2.2.2 Response

See the FlightInfo Operational 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
/FlightInfoOperationalPax/v1/flights/query[?filter][&continuationToken][&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
- Estimated
- FlightStatus
- Airline
- FlightId

The filter expression supports the following operators.

- and
- or

- eq
- ne
- gt
- ge
- lt
- le

### 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 2019-02-09

```
airport eq 'ARN' and scheduled eq '190209' and flightType eq 'D'
```

Arrivals from Arlanda and Visby 2019-02-09

```
(airport eq 'ARN' or airport eq 'VBY') and flightType eq 'A' and  
scheduled eq '190209'
```

Get single flight

```
airport eq 'ARN' and scheduled eq '190209' and flightType eq 'D'  
and flightId eq 'SK007'
```

Query for estimated times:

```
airport eq 'ARN' and estimated eq '2019-07-02T08:30:00' and  
flightType eq 'D'
```

Get departures from Arlanda for specific airline:

```
airport eq 'ARN' and type eq 'D' and airline eq 'SK'
```

## 2.4 PAX

The endpoint allows the client to update numbers of passenger(pax) for a specific flight.

```
PATCH https:// api.swedavia.se
/FlightInfoOperationalPax/v1/paxupdates/pax
```

### 2.4.1 Request Body

See the model ‘ Pax Request’ in the appendix.

### 2.4.2 Request Body Example

```
{
  "identifier": {
    "departureAirportIata": "ARN",
    "arrivalAirportIata": "MMX",
    "date": "2020-09-08",
    "flightId": "AB123"
  },
  "data": {
    "paxEstimatedOnBoard": 120,
    "crewActiveOnBoard": 5,
    "paxChildOnboard": 2,
    "paxInfantOnboard": 2,
    "paxAdultOnboard": 110,
    "paxCrewPassiveOnboard": 2
  },
  "additionalInfo": {
    "correlationId": null,
    "callsign": "EXAMPLE",
    "aircraftRegistration": "EX-AMP"
  }
}
```

### 2.4.3 Respone

HTTP Response Code	Description
200	Update accepted.
400	Request is not valid.
401	Client is not authorized to write updates for either departure airport, arrival airport or selected airline.
500	Server side error.

## APPENDIX – FLIGHTINFO OPERATIONAL MODEL

Version: 1.0

### flights/{airportIATA}/arrivals/{date}

#### Parameters

Name	Required	Description	Parameter Type	Data Type
airportIATA	True		path	string
date	True		path	string

### flights/{airportIATA}/departures/{date}

#### Parameters

Name	Required	Description	Parameter Type	Data Type
airportIATA	True		path	string
date	True		path	string

### flights/query

Query flight information using an OData filter expression.

#### Parameters

Name	Required	Description	Parameter Type	Data Type
filter	False	OData filter expression. Omit to get all flights	query	string
continuationtoken	False	The token is base64 encoded and may need to be escaped. In .NET a client would call: Uri.EscapeDataString(token)	query	string
count	False	Number of items to return. Default 1000. Max allowed 1000	query	integer

#### Supported fields:

airport: IATA code for any Swedavia airport

flightType: A for arrival and D for Departure

scheduled: Local Swedish date for departure or arrival

estimated: UTC date and time for estimated departure or arrival

flightStatus: See documentation or response for status codes



airline: Operator IATA code  
flightId: Operator code and flight number

Supported operations: and, or, eq, ne, gt, ge, lt, le

### **continuationtoken**

Used for getting next set of flights. Use the value from your last result to get updated flights. If no flights have been updated, you will get a result without flights. You can store your continuationtoken locally and reuse it in a later call. The token is base64 encoded and may need to be escaped. In .NET a client would call "token = Uri.EscapeDataString(token);

### **Examples:**

Get departures from Arlanda for 2018-02-09:  
airport eq 'ARN' and scheduled eq '180209' and flightType eq 'D'

Get arrivals from Arlanda and Visby for 2018-02-09:  
(airport eq 'ARN' or airport eq 'VBY') and flightType eq 'A' and scheduled eq '190209'

Get single flight:  
airport eq 'ARN' and scheduled eq '190209' and flightType eq 'D' and flightId eq 'SK007'

Query for estimated times:  
airport eq 'ARN' and estimated eq '2019-07-02T08:30:00' and flightType eq 'D'

Get departures from Arlanda for specific airline:  
airport eq 'ARN' and type eq 'D' and airline eq 'SK'

To get all flights, leave the filter parameter empty

### **Call Limit**

This endpoint is limited to one call per two seconds. Any additional calls will result in a HTTP status code 429, Too Many Requests.

## Arrivals

Property	Type	Nullable	Description	Restricted access only	Comments
To			Arriving to		
ArrivalAirport					
IATA	String		IATA code for airport		
ICAO	String		ICAO code for arrival airport		
Swedish	String		Airport name in Swedish		
English	String		Airport name in English		
FlightArrivalDateUtc	String		Arrival date in UTC		
NumberOfFlights	Integer		Number of flights in response		
Flights	[]		A list with one or more flights		
FlightId	String		IATA based identifier for this flight. FlightId is normally the concatenation of OperatingAirlinesIATA, FlightNumber and OperationalSuffix. FlightId typically identifies a flight it's unique only in conjunction with FlightDepartureDate.		
DepartureAirport					
Swedish	String		Departure airport name in Swedish		
English	String		Departure airport name in English		
AirlineOperator					
IATA	String		The IATA code of the party operating the flight		
ICAO	String		The ICAO code of the party operating the flight		
Name	String		The party operating the flight		
AcdmUtcTimeArrival			Arrival times in UTC		
Aibt	DateTime	Yes	Actual In-Block Time. The time that an aircraft arrives in-blocks.		
Aldt	DateTime	Yes	Actual Landing Time. The time that an aircraft lands on a runway.		

Axit	String		Actual Taxi-In Time. Metric: AIBT – ALDT		
Eibt	DateTime	Yes	Estimated In-Block Time. The estimated time that an aircraft will arrive in- blocks.		
Eldt	DateTime	Yes	Estimated Landing Time. The estimated time that an aircraft will touchdown on the runway.		
Exit	String		Estimated Taxi-In Time. The estimated taxi time between landing and in- block		
Sibt	DateTime	Yes	Scheduled In-Block Time. The time that an aircraft is scheduled to arrive at its first parking position.		
Tldt	DateTime	Yes	Target Landing Time		
LinkedDepartureFlightId	String	Yes	FlightId of the linked departure flight		
Location					
Terminal	String		A building at an airport where passengers transfer between ground transportation and the facilities that allow them to board and disembark from aircraft.		
Gate	String		Uniquely defines one gate at the airport.		
AircraftParkingPosition	String		Where the aircraft is located. Code for a parking position, typically a stand, but can also be a hangar.		
Stand	String		A designated area on an airport intended to be used for parking an aircraft.		
PreviousStand	String		A designated area on an airport intended to be used for parking an aircraft.		
PreviousGate	String		Uniquely defines one gate at the airport.		
CodeShare	String[]		Alternate flightIds for this flight		
Status			Text that describes the current status		
FlightStatusSwedish	String[]		Text that describes the current status. For example "Landat 2030"		

FlightStatusEnglish	String[]		Text that describes the current status. For example "Landed 2030"		
FlightLegStatus	String	Yes	Possible values are:		
			SCH Scheduled		
			FPL Flight Plan		
			FLS Flight Suspended		
			SEQ Sequenced		
			ACT Active		
			CAN Cancelled		
			LAN Landed		
			RER Rerouted		
			DIV Diverted		
			DEL Deleted		
FlightIsCancelled	Boolean		Indicates if a flight is cancelled or not		
Baggage					
BaggageClaimUnit	String		Baggage belt (carousel) onto which passenger bags are loaded for collection by passengers on arrival flights.		
BeltTargetFirstBag	DateTime	Yes	Bag Estimate To Passenger Time		
BeltFirstBag	DateTime	Yes	UTC time the first passenger bag was loaded onto a baggage belt(carousel).		
BeltLastBag	DateTime	Yes	UTC time the last passenger bag was loaded onto baggage a belt(carousel)		
BaggageCountLoaded	Integer	Yes	Number of bags loaded onto an aircraft.	Yes	
BaggageWeightLoaded	Integer	Yes	Weight in kilos of baggage loaded onto an aircraft.	Yes	
Pax					
PaxAdultOnBoard	Integer	Yes	The total number of adult passengers on board this aircraft at this airport.	Yes	
PaxChildOnBoard	Integer	Yes	The total number of child passengers on board this aircraft	Yes	

			at this airport.		
PaxInfantOnBoard	Integer	Yes	The number of infants on board	Yes	
PaxSeatedOnBoard	Integer	Yes	PaxSeatedOnBoard = CrewPassiveOnBoard + PaxAdultOnBoard + PaxChildOnBoard	Yes	
PaxTransit	Integer	Yes	The number of passengers and passive crew that stay on the aircraft at one stop on a multi leg flight.	Yes	
CrewActiveOnBoard	Integer	Yes	Number of working crew members (cockpit, cabin and jump seat) on board the aircraft.	Yes	
CrewPassiveOnBoard	Integer	Yes	Number of passive crew on board the aircraft.	Yes	
PersonsOnBoard	Integer	Yes	PersonsOnBoard = CrewActiveOnBoard+ CrewPassiveOnBoard+ PaxSeatedOnBoard+ PaxInfantOnBoard	Yes	
PaxTransfer	Integer	Yes	Number of transfer passengers on that flight	Yes	
PaxBusIsNeeded	Boolean	Yes	Whether a number of busses are required to transport passengers between the gate and the aircraft.	Yes	
EstimatedOnBoard	Integer	Yes	Estimate of boarding passengers.	Yes	
Transfers	[]		A list of transfers		
FlightId	String		Flightid of the transfer flight		
Sobt	DateTime	Yes	Sobt of the transfer flight		
DestinationAirportIata	String		Destination airport IATA of the transfer flight		
TransferPax	Integer	Yes	Number of transfer passengers to that flight		
NumberOfBags	Integer	Yes	Number of transfer bags to that flight		
FlightLegIdentifier			FlightLegIdentifier is a set of attributes that uniquely can identify a FlightLeg in different contexts		

Callsign	String		A call sign is used to uniquely identify an aircraft using the airspace around a particular airport		
AircraftRegistration	String		An aircraft registration is a unique alphanumeric string that identifies an aircraft		
SsrCode	Integer	Yes	Secondary Surveillance Radar Code. A four-digit octal number received from the aircraft transponder when it is interrogated by a secondary surveillance radar (SSR).		
FlightId	String		OperatingAirlinesATA and FlightNumber		
FlightDepartureDate	DateTime	Yes	The scheduled date (based on UTC) of departure of flight.		
DepartureAirportIata	String		IATA code which uniquely defines an airport.		
ArrivalAirportIata	String		IATA code which uniquely defines an airport.		
DepartureAirportIcao	String		ICAO code which uniquely defines an airport.		
ArrivalAirportIcao	String		ICAO code which uniquely defines an airport.		
ViaDestinations	[]		A list of airports a flight will land on the way to the (final) destination airport		
IATA	String		IATA code for airport via destination		
ICAO	String		ICAO code for airport via destination		
Swedish	String		Via destination airport name in Swedish		
English	String		Via destination airport name in English		
AddOnServices					
Remark	String		Requested add on services in free text, this used when a list of services is not available.		
Services	[]		A list of services requested for the flight		

Code	String		Code for the requested addon service		
Value	Integer	Yes	Amount of service when applicable		
UnitOfMeasure	String		Unit of measure for the requested service for example kilogram		
Description	String		Name of requested service in text		
RemarksSwedish	[]		Remarks intended for FIDS screens in Swedish		
RemarkName	String		Name of remark		
RemarkText	String		Remark text		
RemarkIndicator	String	Yes	Importance of remark Possible values are:		
			NEGATIVE Negative		
			NEUTRAL Neutral		
			POSITIVE Positive		
RemarkTextAreaName	String		Internal remark area		
RemarksEnglish	[]		Remarks intended for FIDS screens in English		
RemarkName	String		Name of remark		
RemarkText	String		Remark text		
RemarkIndicator	String	Yes	Importance of remark Possible values are:		
			NEGATIVE Negative		
			NEUTRAL Neutral		
			POSITIVE Positive		
RemarkTextAreaName	String		Internal remark area		
Handlers			Organization that provides handling services for a flight.		
Deicing					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
Expedition					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
Ramp					

Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
AgentRamp					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
Catering					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
Passenger					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
DIIndicator	String	Yes	Indicator showing what kind of flight (domestic, international, Schengen) this is.		
			Possible values are:		
			I International		
			D Domestic		
			S Schengen		
Aircraft			A machine or device, such as an airplane, helicopter, glider, or dirigible, that is capable of atmospheric flight. The aircraft is identified by a unique registration number, see: AircraftRegistration		
iataType	String		3-character code as designated by International Air Transport Association (IATA) to uniquely designate Aircraft Type.		
icaoType	String		ICAO Flight Service Type		
SeatingCapacity	Integer	Yes	Maximum number of passengers that can be seated in the aircraft with the current configuration.		
FlightServiceType			The code describing the type of flight for example Normal Service, Passenger Normal Service etc.		
IATA	String	Yes	IATA Flight Service Type Possible values are:		



			J Normal Service S Shuttle Mode		
			U Service operated by surface vehicle		
			F Loose loaded cargo and/or preloaded devices V Service operated by surface vehicle		
			M Mail only		
			Q Passenger/Cargo in cabin (pax cum freighter) G Passenger Normal Service		
			B Passenger Shuttle Mode A Cargo/Mail		
			R Passenger/Cargo in cabin (pax cum freighter) C Passenger Only		
			O Charter requiring special handling (e.g. Migrants/Immigrants)		
			H Cargo and/or Mail		
			L Passenger and Cargo and/or Mail		
			P Non-revenue (Positioning/Ferry/Delivery/Demo)		
			T Technical Test		
			K Training (School/Crew check)		
			D General Aviation		
			E Special (FAA/Government) W Military	Yes	Blocked by regulations
			X Technical Stop (for Chapter 6 applications only)		
ICAO	String	Yes	ICAO Flight Service Type Possible values are:		
			S Scheduled Air Transport		
			N Non-scheduled air transport operation		
			G General aviation		
			M Military	Yes	Blocked by regulations
Cargo			X other than any of the defined categories above		
				Yes	

LoadTotalLoaded	Integer	Yes	Weight in kgs of all types of cargo (mail, papers, etc.) and baggage loaded into the hold of the aircraft.	Yes	Currently blocked
CargoWeightLoaded	Integer	Yes	Weight in Kilos of cargo (freight) loaded onto the aircraft at the current airport.	Yes	
MailWeightLoaded	Integer	Yes	Weight in Kilos of mail loaded onto the aircraft.	Yes	
ArrivalDelays	[]		Arrival delay details	Yes	
iataCode	String			Yes	
iataId	Integer			Yes	
Duration	String		P0Y0M0DT0H15M0S	Yes	
Runway			Identifies arrival runway.		
LogicalRunway	String		Logical runway		

## Departure

Property	Type	Nullable	Description	Restricted access only	Comments
From			Departure from		
DepartureAirport					
IATA	String		IATA code for airport		
ICAO	String		ICAO code for arrival airport		
Swedish	String		Airport name in Swedish		
English	String		Airport name in English		
FlightDepartureDateUtc	String				
NumberOfFlights	Integer		Number of flights in response		
Flights	[]				
FlightId	String		IATA based identifier for this flight. FlightId is normally the concatenation of OperatingAirlineIATA, FlightNumber and OperationalSuffix. FlightId typically identifies a flight it's unique only in conjunction with FlightDepartureDate.		
ArrivalAirport					
Swedish	String		Arrival airport name in Swedish		
English	String		Arrival airport name in English		
AirlineOperator					
IATA	String		The IATA code of the party operating the flight		
ICAO	String		The ICAO code of the party operating the flight		
Name	String		The party operating the flight		
AcdmUtcTimeDeparture					
Aczt	DateTime	Yes	Actual Commencement of De-icing Time. The time when de-icing operations on an aircraft starts.		
Adit	String		Actual De-icing Time. Metric: AEZT – ACZT		

AeZt	DateTime	Yes	Actual End of De-icing Time. The time when de-icing operations on an aircraft end		
AoBt	DateTime	Yes	Actual Off-Block Time. Time the aircraft pushes back / vacates the parking position		
ArDt	DateTime	Yes	Actual Ready Time (for Movement). When the aircraft is ready for start up/push back or taxi immediately after clearance delivery, meeting the requirements set by the TOBT definition.		
ArZt	DateTime	Yes	Actual Ready for De-icing Time. The time when the aircraft is ready to be de-iced.		
AsAt	DateTime	Yes	Actual Start Up Approval Time. Time that an aircraft receives its start up approval.		
AsBt	DateTime	Yes	Actual Start Boarding Time. Time passengers are entering the bridge or bus to the aircraft.		
AsRt	DateTime	Yes	Actual Start Up Request Time. Time the pilot requests start up clearance.		
AtOt	DateTime	Yes	Actual Take Off Time. The time that an aircraft takes off from the runway.		
AxOt	String		Actual Taxi-Out Time. Metric: ATOT – AOBT		
CtOt	DateTime	Yes	Calculated Take Off Time. A time calculated and issued by the appropriate Central Management unit, as a result of tactical slot allocation, at which a flight is expected to become airborne.		
EcZt	DateTime	Yes	Estimated Commencement of De-icing Time. The estimated time when de-icing operations on an aircraft are expected to start.		
EdIt	String		Estimated De-icing Time. Metric: EEZT – ECZT.		

Eezt	DateTime	Yes	Estimated End of De-icing Time. The estimated time when de-icing operations on an aircraft are expected to end.		
Eobt	DateTime	Yes	Estimated Off-Block Time. The estimated time at which the aircraft will start movement associated with departure.		
Erzt	DateTime	Yes	Estimated Ready for De-icing Time. The estimated time when the aircraft is expected to be ready for de-icing operations.		
Etot	DateTime	Yes	Estimated Take Off Time. The estimated take off time taking into account the EOBT plus EXOT.		
Exot	String		Estimated Taxi-Out Time. The estimated taxi time between off-block and take off. This estimate includes any delay buffer time at the holding point or remote de-icing prior to take off.		
Sobt	DateTime	Yes	Scheduled Off-Block Time. The time that an aircraft is scheduled to depart from its parking position.		
Tobt	DateTime	Yes	Target Off-Block Time. The time that an Aircraft Operator or Ground Handler estimates that an aircraft will be ready, all doors closed, boarding bridge removed, push back vehicle available and ready to start up / push back immediately upon reception of clearance from the TWR.		
Tsat	DateTime	Yes	Target Start Up Approval Time. The time provided by ATC taking into account TOBT, CTOT and/or the traffic situation that an aircraft can expect start up / push back approval Note: The actual start up approval (ASAT) can be given in advance of TSAT.		

Ttot	DateTime	Yes	The Target Take Off Time taking into account the TOBT/TSAT plus the EXOT. Each TTOT on one runway is separated from other TTOT or TLDT to represent vortex and/or SID (Standard Instrument Departure (ref. SIDRoute)) separation between aircraft.		
LinkedArrivalFlightId	String	Yes	FlightId of the linked arrival flight		
Location					
CheckInDeskFrom	Integer	Yes	The first check in desk in a range that a single flight is allocated to.		
CheckInDeskTo	Integer	Yes	The last check in desk in a range that a single flight is allocated to.		
Terminal	String		A building at an airport where passengers transfer between ground transportation and the facilities that allow them to board and disembark from aircraft.		
Gate	String		Uniquely defines one gate at the airport.		
AircraftParkingPosition	String		Where the aircraft is located. Code for a parking position, typically a stand, but can also be a hangar.		
Stand	String		A designated area on an airport intended to be used for parking an aircraft.		
PreviousStand	String		A designated area on an airport intended to be used for parking an aircraft.		
PreviousGate	String		Uniquely defines one gate at the airport.		
CodeShare	String[]		IATA code of the airline company operating a codeshare for this flight.		
Status					
CheckInStatus	String	Yes	The check in status of a single flight that is allocated to one or more check in desks.		
			Possible values are:		
			0 Open		

			C Closed		
CheckInStatusSwedish	String		The check in status in Swedish text		
CheckInStatusEnglish	String		The check in status in English text		
CheckInOpen	DateTime	Yes	The time when the first check-in desk opened against this flight.		
CheckInClose	DateTime	Yes	The time when the last check-in desk against this flight closed.		
GateAction	String	Yes	The stage in the boarding process for the gate. Possible values are:		
			I Initiate gating		
			F Final call		
			C Close gate		
			B Start boarding		
			E End boarding		
GateActionSwedish	String		The gate action in Swedish text		
GateActionEnglish	String		The gate action in English text		
GateOpen	DateTime	Yes	The time at which the gate is opened for passenger processing.		
GateClose	DateTime	Yes	The time at which the gate is closed for passenger processing.		
FlightStatusSwedish	String[]		The status of a flight in Swedish		
FlightStatusEnglish	String[]		The status of a flight in English		
FlightIsCancelled	Boolean		Indicates if a flight is cancelled or not		
FlightLegStatus	String	Yes	The status of a "FlightLeg". Possible values are:		
			SCH Scheduled		
			FPL Flight Plan		
			FLS Flight Suspended		
			SEQ Sequenced		
			ACT Active		
			CAN Cancelled		
			LAN Landed		
			RER Rerouted		
			DIV Diverted		

			DEL Deleted		
Baggage				Yes	
BaggageCountLoaded	Integer	Yes	Number of bags loaded onto an aircraft.	Yes	
BaggageWeightLoaded	Integer	Yes	Weight in kilos of baggage loaded onto an aircraft.	Yes	
TransferBaggageCountLoaded	Integer	Yes	Sum of all transfers bags (numberOfBags)	Yes	
Pax				Yes	
PaxAdultOnBoard	Integer	Yes	The total number of adult passengers on board this aircraft at this airport.	Yes	
PaxChildOnBoard	Integer	Yes	The total number of child passengers on board this aircraft at this airport.	Yes	
PaxInfantOnBoard	Integer	Yes	The number of infants on board the plane.	Yes	
PaxSeatedOnBoard	Integer	Yes	PaxSeatedOnBoard = CrewPassiveOnBoard + PaxAdultOnBoard	Yes	
			+ PaxChildOnBoard	Yes	
PaxTransit	Integer	Yes	The number of passengers and passive crew that stay on the aircraft at one stop on a multi leg flight.	Yes	
CrewActiveOnBoard	Integer	Yes	Number of working crew members (cockpit, cabin and jump seat) on board the aircraft.	Yes	
CrewPassiveOnBoard	Integer	Yes	Number of passive crew on board the aircraft.	Yes	
PersonsOnBoard	Integer	Yes	PersonsOnBoard = CrewActiveOnBoard+ CrewPassiveOnBoard+ PaxSeatedOnBoard+ PaxInfantOnBoard	Yes	
PaxTransfer	Integer	Yes	Number of transfer passengers on that flight	Yes	
PaxBusIsNeeded	Boolean	Yes	Whether a number of busses are required to transport passengers between the gate and the aircraft.	Yes	
EstimatedOnBoard	Integer	Yes	Estimate of boarding passengers.	Yes	



Transfers	[]		A list of transfers		
FlightId	String		Flightid of the transfer flight		
Sobt	DateTime	Yes	Sobt of the transfer flight		
DestinationAirportIata	String		Destination airport IATA of the transfer flight		
TransferPax	Integer	Yes	Number of transfer passengers to that flight		
NumberOfBags	Integer	Yes	Number of bags to that transfer flight		
FlightLegIdentifier			FlightLegIdentifier is a set of attributes that uniquely can identify a FlightLeg in different contexts		
Callsign	String		A call sign is used to uniquely identify an aircraft using the airspace around a particular airport		
AircraftRegistration	String		An aircraft registration is a unique alphanumeric string that identifies an aircraft		
SsrCode	Integer	Yes	Secondary Surveillance Radar Code. A four-digit octal number received from the aircraft transponder when it is interrogated by a secondary surveillance radar (SSR).		
FlightId	String		OperatingAirlinesIATA and FlightNumber		
FlightDepartureDate	DateTime	Yes	The scheduled date (based on UTC) of departure of flight.		
DepartureAirportIata	String		IATA code which uniquely defines an airport.		
ArrivalAirportIata	String		IATA code which uniquely defines an airport.		
DepartureAirportIcao	String		ICAO code which uniquely defines an airport.		
ArrivalAirportIcao	String		ICAO code which uniquely defines an airport.		
ViaDestinations	[]		Airports a flight will land on the way to the (final) destination airport		

IATA	String		IATA code for airport via destination		
ICAO	String		ICAO code for airport via destination		
Swedish	String		Via destination airport name in Swedish		
English	String		Via destination airport name in English		
AddOnServices					
Remark	String		Requested add on services in free text, this used when a list of services is not available.		
Services	[]		A list of services requested for the flight		
Code	String		Code for the requested addon service		
Value	Integer	Yes	Amount of service when applicable		
UnitOfMeasure	String		Unit of measure for the requested service for example kilogram		
Description	String		Name of requested service in text		
RemarksSwedish	[]		Remarks intended for FIDS screens in Swedish		
RemarkName	String		Name of remark		
RemarkText	String		Remark text		
RemarkIndicator	String	Yes	Importance of remark Possible values are:		
			NEGATIVE Negative		
			NEUTRAL Neutral		
			POSITIVE Positive		
RemarkTextAreaName	String		Internal remark area		
RemarksEnglish	[]		Remarks intended for FIDS screens in English		
RemarkName	String		Name of remark		
RemarkText	String		Remark text		
RemarkIndicator	String	Yes	Importance of remark Possible values are:		
			NEGATIVE Negative		

			NEUTRAL Neutral		
			POSITIVE Positive		
RemarkTextAreaName	String		Internal remark area		
Handlers					
Deicing					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
Expedition					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
Ramp					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
AgentRamp					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
Catering					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
Passenger					
Code	String		Code that identifies a Handler		
Name	String		Name of a Handler in text		
DIIndicator	String	Yes	Indicator showing what kind of flight (domestic, international, Schengen) this is. Possible values are:		
			I International		
			D Domestic		
			S Schengen		
Aircraft					
iataType	String		3-character code as designated by International Air Transport Association (IATA) to uniquely		

			designate Aircraft Type.		
icaoType	String		ICAO Flight Service Type		
SeatingCapacity	Integer	Yes	Maximum number of passengers that can be seated in the aircraft with the current configuration.		
FlightServiceType					
IATA	String	Yes	IATA Flight Service Type Possible values are:		
			J Normal Service S Shuttle Mode		
			U Service operated by surface vehicle		
			F Loose loaded cargo and/or preloaded devices V Service operated by surface vehicle		
			M Mail only		
			Q Passenger/Cargo in cabin (pax cum freighter)		
			G Passenger Normal Service		
			B Passenger Shuttle Mode A Cargo/Mail		
			R Passenger/Cargo in cabin (pax cum freighter)		
			C Passenger Only		
			O Charter requiring special handling (e.g.Migrants/Immigrants)		
			H Cargo and/or Mail		
			L Passenger and Cargo and/or Mail		
			P Non-revenue (Positioning/Ferry/Delivery/Demo)		
			T Technical Test		
			K Training (School/Crew check)		
			D General Aviation		
			E Special (FAA/Government)	Yes	Blocked by regulations
			W Military		
			X Technical Stop (for Chapter 6 applications only)		

ICAO	String	Yes	ICAO Flight Service Type Possible values are:		
			S Scheduled Air Transport		
			N Non-scheduled air transport operation G General aviation		
			M Military	Yes	Blocked by regulations
			X other than any of the defined categories above		
Cargo				Yes	
LoadTotalLoaded	Integer	Yes	Weight in kgs of all types of cargo (mail, papers, etc.) and baggage loaded into the hold of the aircraft.	Yes	Currently blocked
CargoWeightLoaded	Integer	Yes	Weight in Kilos of cargo (freight) loaded onto the aircraft at the current airport.	Yes	
MailWeightLoaded	Integer	Yes	Weight in Kilos of mail loaded onto the aircraft.	Yes	
FuelRampRequested	Integer	Yes	FuelRamp indicates the kilogram of fuel that is requested.		
Runway			Identifies departure runway.		
LogicalRunway	String		Logical runway		
DepartureDelays	[]		Departure delay details	Yes	
iataCode	String			Yes	
iataId	Integer			Yes	
Duration	String			Yes	

## PAX REQUEST

Property	Type	Nullable	Description	Restricted access only	Comments
Identifier					
departureAirportIata	String		Iata code of the airport where the flight departs from.		
arrivalAirportIata	String		Iata code of the airport where the flight will arrive.		
Date	String		UTC date when the flight departs.		Format: yyyy-MM-dd HH:mm:ssZ
Data					
paxEstimatedOnBoard	Integer		Number of pax on board.		This value will update current value.
crewActiveOnBoard	Integer		Number of active crew members on board.		This value will update current value.
paxChildOnBoard	Integer		Number of pax children on board.		This value will update current value..
paxInfantOnBoard	Integer		Number of pax infants on board.		This value will update current value.
paxAdultOnBoard	Integer		Number of adult pax on board.		This value will update current value.
paxCrewPassivaOnBoard	Integer		Number of pssive crew members on board.		This value will update current value.
AdditionalInfo					
correlationId	String	Yes	If available, the correlation id.		Null values will be replaced with a generated GUID.
callsign	String	Yes	Callsign of the flight.		
aircraftRegistration	String	Yes	Registration number of the aircraft.		