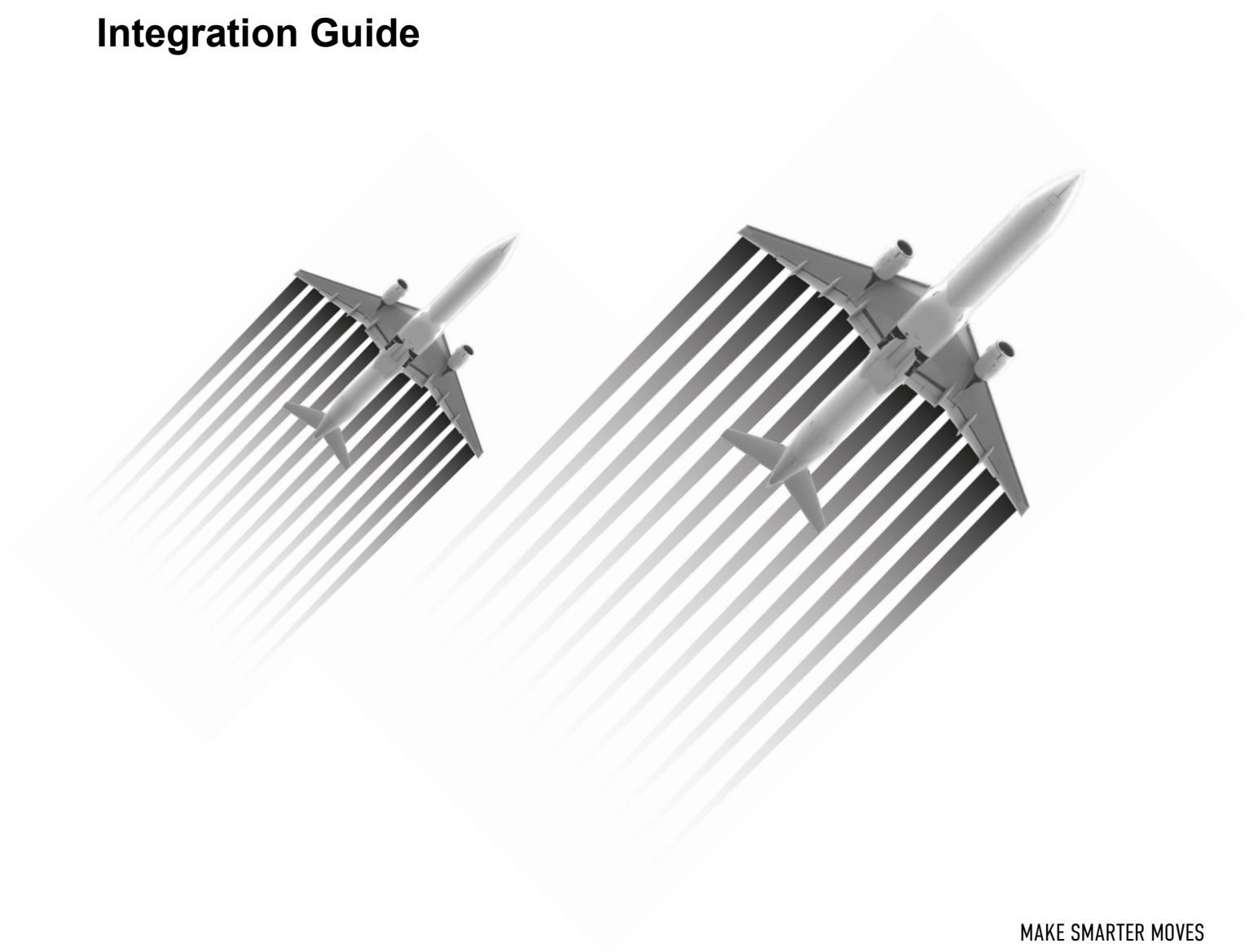


# OAG HISTORICAL DAILY FLIGHTS REPORTS

## Integration Guide



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# 1. Introduction

OAG Historical Daily Flight Reports are reports for a selected set of past flights filtered by geography, airlines, airports and/or other criteria. They are used for analysing on-time performance and trends on key statistics such as time aloft, and other events. The reports are delivered as flat files for customers to easily import into a spreadsheet or database application for review and/or incorporating into high-level analyses with other corporate data.

The Historical Daily Flight Reports include a variety of information about each flight, such as:

**Flight Number:** airline code, flight number

**Departure/Arrival Airports:** departure and arrival airport codes, country codes, terminals, gates, baggage assignments

**Flight Times:** scheduled, estimated and actual departure and arrival gate and runway times; or flight cancelled identifier

**Additional Flight Characteristics:** tail number, equipment type, service type, regional or code-share operator, sequence number for multi-leg flight, previous flight number

The Historical Daily Flight Reports are based on OAG's extensive real-time flight information, which contains data from hundreds of sources, globally. Such sources include schedule data, airline direct feeds, in-air position feeds or radar data, and airport feeds. Data from all of these sources is normalized and aggregated to provide customers with the most accurate picture of each flight on any given day.

# 2. Report Configuration

The reports are configurable to suit the varying needs of our customers. They may be configured in the following ways:

- Specifying the scope of flights
- Specifying which data elements to include
- Requesting additional custom calculated fields

## Scope of Flights

The flights in the report may be filtered in the following manner:

1. By country (Flights whose scheduled departure airport or scheduled arrival airport are in the target country).
2. Include only flights for specified airlines.
3. Include only flights for specified airports.
4. Include/exclude marketing code-share flights (if exclude then only the operating flights will be in the report)
5. Include/exclude Unscheduled flights (e.g. flights that fly a final leg to the scheduled destination after being diverted to an alternate airport, last-minute flights added on the day of departure)
6. [US and Canada only] Include/exclude Private Aviation flights (flights for privately owned/operated aircrafts)

## Data Fields

The data elements that may be included in a Historical Daily Flight Report are listed in Section 6, under Glossary of Terms. Please speak with your OAG contact about any custom calculated fields you would like added.

Customers work with the OAG implementation team to provide their configuration requirements.

## 3. Report Delivery

The Historical Daily Flight Reports are **tab-delimited, ASCII-encoded files**, compressed in gzip format (see <http://www.gzip.org/zlib/rfc-gzip.html> for details). Please see instructions below for opening them.

Customers access the daily report file through OAG FTP site.

### Instructions to open output file:

1. There are many open source utility programs to open gzip files, such as <http://www.7-zip.org/>. Use one of these to unzip the file.
2. Once the gzip is unzipped, the customer shall save it as a text file.
3. Open Excel program on your computer. Click File > Open > Open Text File.
4. Follow the Excel Wizard steps to import the data into Excel.

## 4. Time Period Covered

Some customers request Historical Flight Reports for a specific time period in the past (e.g. all of 2016 or first 3 months of 2019), other customers request reports for each day moving forward from today, and yet others request both. OAG can service all these requests.

When customers request reports that span multiple days/months in the past, a report for each of the days in the time period is put on the FTP site at once, so if there are 60 days in the time period, then 60 daily reports will be posted. When customers request reports for each day moving forward from today, a report is put on the FTP site each day for the previous day's flights.

All reports will remain available on the FTP site for at least 90 days after they are created.

## 5. Sample Report

Below is a sample report broken into 2 sections in this document only, for ease of reading. In the real report there is one record per flight leg and all its associated field values.

Please note: This sample shows a limited number of fields (as the columns). There are more fields that can be selected as part of a customer's configuration. Please see Section 6 for the list of possible standard fields to select from. Also, as stated above, customer calculated fields may be added.

FlightId	AirlineCode	FlightNumber	SchedDepApt	SchedArrApt	SchedDepUtc	SchedArrUtc	SchedDepLocal	SchedArrLocal
B61001BUFJFK1904270103	B6	1001 BUF	BUF	JFK	4/27/2019 1:03	4/27/2019 2:36	4/26/2019 21:03	4/26/2019 22:36
B61002FLLJFK1904270155	B6	1002 FLL	FLL	JFK	4/27/2019 1:55	4/27/2019 4:42	4/26/2019 21:55	4/27/2019 0:42
B61004HAVMCO1904261410	B6	1004 HAV	MCO	MCO	4/26/2019 14:10	4/26/2019 15:38	4/26/2019 10:10	4/26/2019 11:38
B61006LGBSEA1904270010	B6	1006 LGB	SEA	SEA	4/27/2019 0:10	4/27/2019 2:54	4/26/2019 17:10	4/26/2019 19:54
B61007SEALGB1904261300	B6	1007 SEA	LGB	LGB	4/26/2019 13:00	4/26/2019 15:40	4/26/2019 6:00	4/26/2019 8:40
B61009BOSNAS1904261402	B6	1009 BOS	NAS	NAS	4/26/2019 14:02	4/26/2019 17:26	4/26/2019 10:02	4/26/2019 13:26
B6100LAXFLL1904270520	B6	100 LAX	FLL	FLL	4/27/2019 5:20	4/27/2019 10:19	4/26/2019 22:20	4/27/2019 6:19
B61010SDQJFK1904260849	B6	1010 SDQ	JFK	JFK	4/26/2019 8:49	4/26/2019 12:52	4/26/2019 4:49	4/26/2019 8:52
B61011BOSORD1904262144	B6	1011 BOS	ORD	ORD	4/26/2019 21:44	4/27/2019 0:46	4/26/2019 17:44	4/26/2019 19:46
B61012ORDBOS1904261345	B6	1012 ORD	BOS	BOS	4/26/2019 13:45	4/26/2019 16:03	4/26/2019 8:45	4/26/2019 12:03
B61013JFKLGB1904262125	B6	1013 JFK	LGB	LGB	4/26/2019 21:25	4/27/2019 3:59	4/26/2019 17:25	4/26/2019 20:59
B61017JAXFLL1904261100	B6	1017 JAX	FLL	FLL	4/26/2019 11:00	4/26/2019 12:15	4/26/2019 7:00	4/26/2019 8:15

DepTerminal	DepGate	ArrTerminal	ArrGate	Baggage	ServiceType	AircraftType	Unscheduled	DepCountryCode	ArrCountryCode	TailNumber
	7	5	7	2 J	E190			US	US	N236JB
	3 F3	5	12	3 J	A321			US	US	N973JT
	3	A	25	4 J	E190			CU	US	N238JB
	10	B15		J	A320			US	US	N652JB
	B15		6	J	A320			US	US	N508JL
C	C5	2		J	A320			US	BS	N645JB
	5 55A	3 E4	8	J	A321			US	US	N923JB
	B3	5	27	7 J	A321			DO	US	N999JQ
C	C12	3 L2A		J	E190			US	US	N348JB
	3 L2A	C	C18	2 J	E190			US	US	N258JB
	5	28	6	J	A320			US	US	N768JB
A	A2	3 E2	7	J	E190			US	US	N100JB

## 6. Glossary of Terms

The following is a list of all the standard fields that may be included in a Historical Daily Flight Report. Customers may choose any subset of these to include in their report, as well as request additional custom calculated fields.

Field	Description	Values
FlightId	Alphanumeric key for the flight	
AirlineCode	Airline code	
FlightNumber	Flight number	
SchedDepAirport	Scheduled departure airport code	
SchedArrAirport	Schedule arrival airport code	
SchedDepUtc	Schedule departure time (UTC)	
SchedArrUtc	Schedule arrival time (UTC)	
SchedDepLocal	Schedule departure time (local)	
SchedArrLocal	Schedule arrival time (local)	

Diversion Status	If this is a diverted flight, indicates whether this record represents the <b>O</b> riginal flight, the <b>D</b> iverted flight, or the <b>R</b> ecovery flight.	O – Original D – Diverted R – Recovery
RecovFlightId	If a Recovery Exists for diverted flight, this is its FlightId	
OpAirlineCode	Airline code for operating flight (only if codeshare)	
OpFlightNumber	Flight number for operating flight (only if codeshare)	
AltDepAirport	Alternate departure airport code (recovery flight)	
AltArrAirport	Alternate arrival airport code (diverted flight)	
DepTerminal	Departure terminal	
DepGate	Departure gate	
ArrTerminal	Arrival terminal	
ArrGate	Arrival gate	
Baggage	Baggage claim	
ServiceType	Service type	IATA Service Type values, typically 'J' for commercial passenger service.
AircraftType	Aircraft type	
Unscheduled	Was this flight in the schedule?	"Y" if not in published schedule; empty otherwise
DepCountryCode	CountryId for departure airport	IATA 2-Char Country Codes
ArrCountryCode	CountryId for arrival airport	IATA 2-Char Country Codes
TailNumber	Tail number	
RegAirlineCode	Airline code for regional carrier	
RegFlightNumber	Flight number for regional carrier	

Field	Description	Values
NumLegs	Number of flight legs	
SeqNumber	Sequence number of this flight leg	
OrigDate	Scheduled Origination date (local time)	
OrigDateUtc	Scheduled Origination date (utc time)	
PrevFitAIcode	Airline code for the previous flight for this aircraft	
PrevFitNumber	Flight number for the previous flight for this aircraft	
PrevFitSchedArrLocal	Scheduled arrival time (local) for the previous flight for this aircraft	
PrevFitSchedArrUtc	Scheduled arrival time (utc) for the previous flight for this aircraft	
OutGateLocal	Time flight departed the gate (local)	
OutGateUtc	Time flight departed the gate (utc)	
OutGateAccuracy	Estimated/Actual	"A" = Actual "E" = Estimated
OutGateSource	Airline/airport or FAA	"A" = Airline Data "F" = FAA data
InAirLocal	Time flight took off (local)	
InAirUtc	Time flight took off (utc)	
InAirAccuracy	Estimated/Actual	"A" = Actual "E" = Estimated
InAirSource	Airline/airport or FAA	"A" = Airline Data "F" = FAA data
LandedLocal	Time flight landed (local)	
LandedUtc	Time flight landed (utc)	
LandedAccuracy	Estimated/Actual	"A" = Actual "E" = Estimated
LandedSource	Airline/airport or FAA	"A" = Airline Data "F" = FAA data
InGateLocal	Time flight arrived at the gate (local)	
InGateUtc	Time flight arrived at the gate (utc)	
InGateAccuracy	Estimated/Actual	"A" = Actual "E" = Estimated
InGateSource	Airline/airport or FAA	"A" = Airline Data "F" = FAA data
SchedDepAptNS	Namespace code used to identify the Scheduled Departure Airport	"I" = IATA "C" = ICAO "F" = FAA
SchedArrAptNS	Namespace code used to identify the Scheduled Arrival Airport	
AltDepAptNS	Namespace code used to identify the Alternate Departure Airport	
AltArrAptNS	Namespace code used to identify the Alternate Arrival Airport	
RevSchedDepLocal	Schedule departure time (UTC)	
RevSchedDepUtc	Schedule arrival time (UTC)	
RevSchedArrLocal	Schedule departure time (local)	
RevSchedArrUtc	Schedule arrival time (local)	
Suffix	Extra character indicating a second flight with the same flight number and city pair on the same local	

	departure day	
AircraftOwner	Airline code for aircraft owner	
IsGA	Is this a general aviation flight (privately owned/operated aircraft)	"Y" if private aviation flight; empty otherwise
DiversionType	Type of diversion (planned, unplanned, etc)	"N" = Unplanned "P" = Planned "T" = Tech Stop "A" = In Air Return "R" = Recovery "L" = No Longer Diverted
SimpleMaxAltitude	Maximum altitude (feet) of flight	
SimpleAvgAltitude	Average altitude (feet)	
SimpleMaxSpeed	Maximum speed (knots) of flight	
SimpleAvgSpeed	Average speed (knots)	
Distance	Great circle distance between SchedDepAirport and SchedArrAirport in nautical miles	Calculated
TimeAloft	Flight Time (minutes) from runway to runway	Calculated
Cancelled	Was this Flight Cancelled?	"1" = yes; "0" = no
ActTaxiTimeDep	Departing taxi time	calculated (InAir – OutGate)
ActTaxiTimeArr	Arriving taxi time	calculated (InGate - Landed)
MinLateDeparted	Minutes flight arrived past scheduled departure time (negative value for early flights)	calculated (OutGate - SchedDep)
MinLateArrived	Minutes flight arrived past scheduled arrival time (negative value for early flights)	calculated (InGate - SchedArr)

**NOTE:** Not all data elements are available for every flight leg.