Global Flight Connections
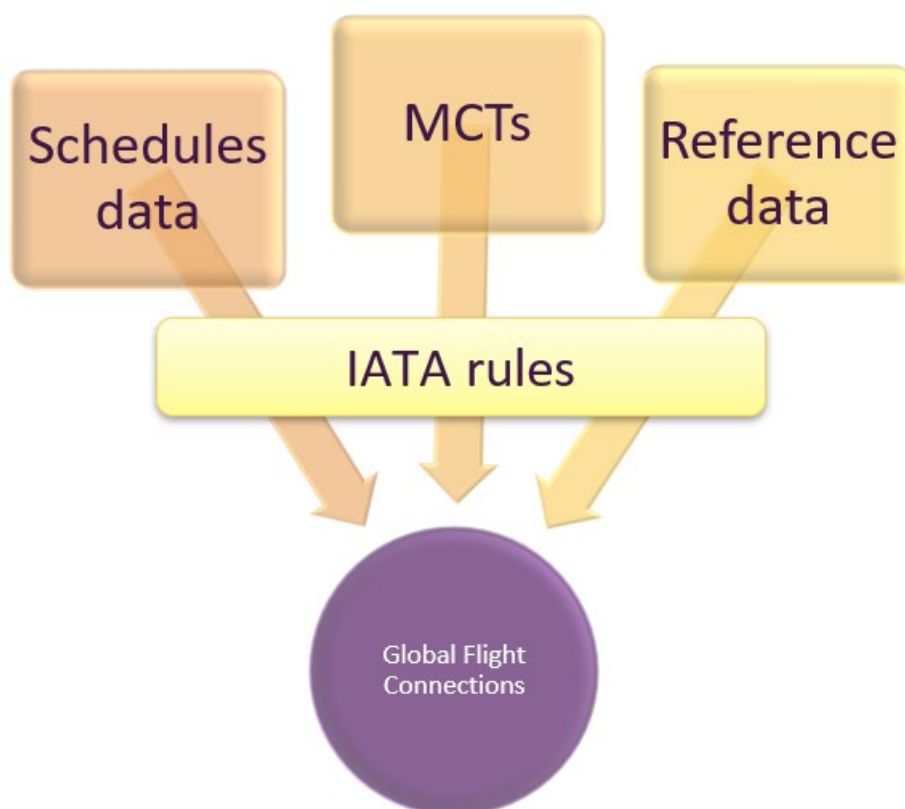
Global single connections produced on weekly basis

About the product

OAG Global Flight Connections is a fixed parameters flat file that is produced on a weekly basis using complex OAG Connection Builder logic. Data includes global single passenger connections. OAG connections are build using the most accurate and up-to-date schedules information, comprehensive and industry compliant Minimum Connecting Times (MCTs).
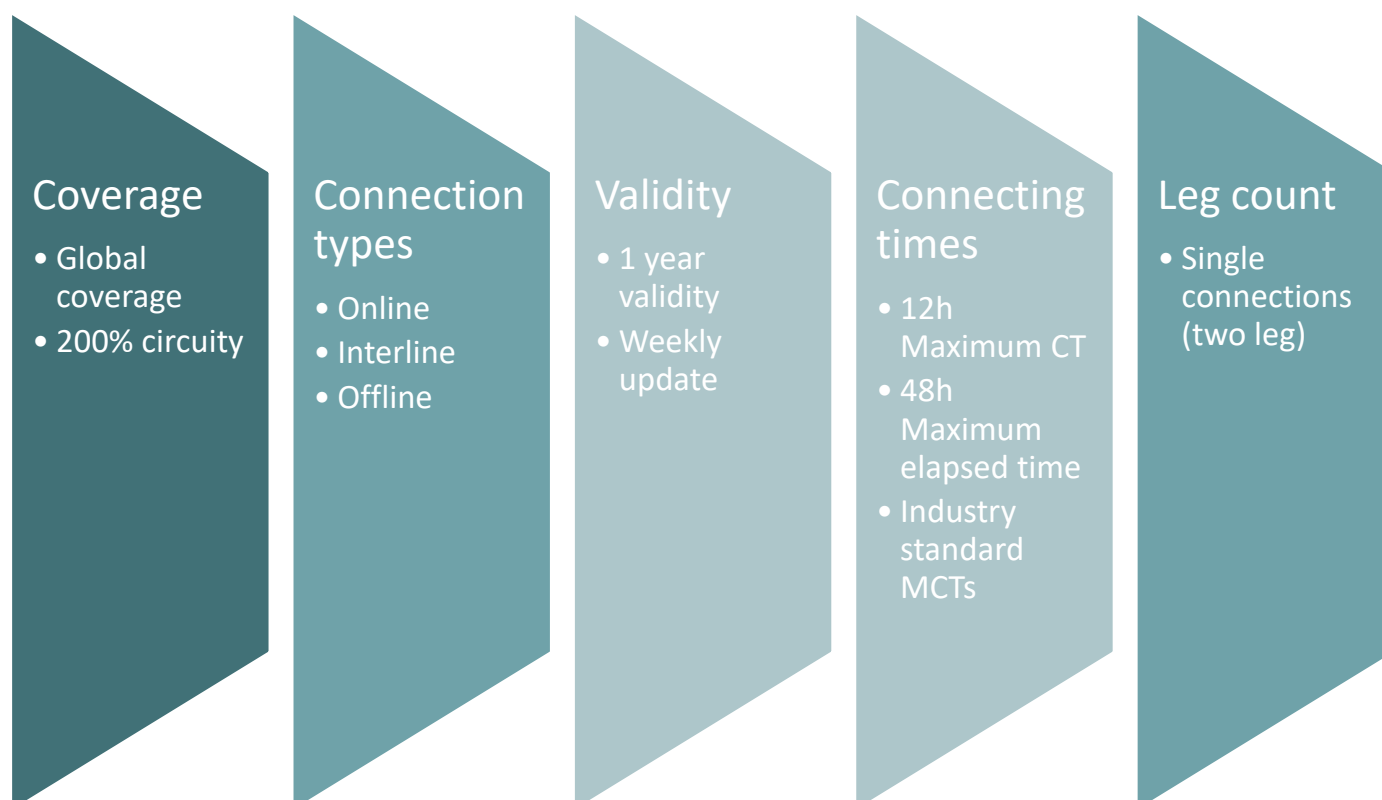

Key features

- **Produced and delivered every week** – with over 700,000 schedule changes a week the delivery of a Global Flight Connections on a weekly basis will give access to up to date single connections worldwide.

- **1-year validity** – the file includes connections valid within a 1-year period.

- **Global coverage** – connections include schedule data for all passenger flights worldwide. Adding 1-year validity, broad geographical coverage, extensive circuity and connecting time related parameters provides data with more than 200 million single connections in one file.

- **Single connections** – the file give access to single connections (two legs with one connecting point in same airport or inter-airport within same metro areas).

- **Connection data with flight details** – the Global Flight Connections will provide pre-built connections – an alternative to schedules data and MCT files then apply complex rules to build valid connections.

- **Schedules data** – Global Flight Connections are created using OAG schedules data which

contains schedules for over 1,000 airlines and over 4,000 airports. 99% of schedules are updated monthly.

- **Minimum Connecting time** – The Global Flight Connections are created using over 120,000 up to date industry-standard individual minimum connection times and airline-specific exceptions.

What data is included?

General parameters

Coverage	Connection types	Validity	Connecting times	Leg count
• Global coverage • 200% circuity	• Online • Interline • Offline	• 1 year validity • Weekly update	• 12h Maximum CT • 48h Maximum elapsed time • Industry standard MCTs	• Single connections (two leg)

Criteria	Data coverage
Geographical coverage	Global coverage
Validity	1-year validity. Validity is open dated.
Maximum connecting time	12 hours
Maximum elapsed connecting time	48 hours
Maximum circuity	200%
Inter-airport connections	Included
Connection types	Online connections, Interline connections, Offline connections are included
Connecting flights	Single connections

Output details

- File count – all single connections provided in one file.
- Output file type – flat file with comma separated values.
- Layout - 1 line per connection.

Data layout

The file layout below is followed by explanations of each field.

	Name	Record type	Sample data for connections
1	Connection ID	Connections and Directs	96
2	Departure City Code	Connections and Directs	MWX
3	Departure Port Code	Connections and Directs	MWX
4	Arrival City Code	Connections and Directs	LON
5	Arrival Port Code	Connections and Directs	LHR
6	Effective From Date	Connections and Directs	20191002
7	Effective To Date	Connections and Directs	20191024
8	Operating Days of Week	Connections and Directs	34 67
9	Arrival Day Marker	Connections and Directs	1
10	Connection Elapsed Time	Connections and Directs	1155
11	QSI	Connections and Directs	80.32501
12	Frequency	Connections and Directs	14
13	Leg 1 Departure City Code	Connections and Directs	MWX
14	Leg 1 Departure Port Code	Connections and Directs	MWX
15	Leg 1 Arrival City Code	Connections and Directs	BKK
16	Leg 1 Arrival Port Code	Connections and Directs	BKK
17	Leg 1 Carrier Code	Connections and Directs	7C
18	Leg 1 Flight Number	Connections and Directs	2215
19	Leg 1 Effective From Date	Connections and Directs	20191002
20	Leg 1 Effective To Date	Connections and Directs	20191026
21	Leg 1 Operating Days of Week	Connections and Directs	34 67
22	Leg 1 Departure Time	Connections and Directs	20:00:00
23	Leg 1 Arrival Time	Connections and Directs	23:20:00
24	Leg 1 Arrival Day Marker	Connections and Directs	0
25	Leg 1 Elapsed Time	Connections and Directs	320
26	Leg 1 Stops	Connections and Directs	0
27	Leg 1 Equipment Type	Connections and Directs	737
28	Leg 1 Non-Operating Code Share Flight Numbers	Connections and Directs	H19924
29	Leg 1 Operating Flight Number	Connections and Directs	
30	Leg 1 Distance	Connections and Directs	3413
31	Leg 1 Departure Country	Connections and Directs	KR
32	Leg 1 Arrival Country	Connections and Directs	TH
33	Leg 2 Departure City Code	Connections only	BKK

34	Leg 2 Departure Port Code	Connections only	BKK
35	Leg 2 Arrival City Code	Connections only	LON
36	Leg 2 Arrival Port Code	Connections only	LHR
37	Leg 2 Carrier Code	Connections only	TG
38	Leg 2 Flight Number	Connections only	910
39	Leg 2 Effective From Date	Connections only	20191001
40	Leg 2 Effective To Date	Connections only	20191026
41	Leg 2 Operating Days of Week	Connections only	1234567
42	Leg 2 Departure Time	Connections only	00:55:00
43	Leg 2 Arrival Time	Connections only	07:15:00
44	Leg 2 Arrival Day Marker	Connections only	0
45	Leg 2 Elapsed Time	Connections only	740
46	Leg 2 Stops	Connections only	0
47	Leg 2 Equipment Type	Connections only	380
48	Leg 2 Non-Operating Code Share Flight Numbers	Connections only	AC6123
49	Leg 2 Operating Flight Number	Connections only	
50	Leg 2 Distance	Connections only	9528
51	Leg 2 Departure Country	Connections only	TH
52	Leg 2 Arrival Country	Connections only	GB

Data fields explanation

1 **Connection ID**

A unique connection/flight identifier can be used to identify the records from one connection.

2 **Departure City Code**

The departure city code as designated by IATA. These are usually the same as the airport code unless the airport belongs to a multi airport city, e.g. LON is the city code for LHR, LGW, LCY, STN and LTN airports.

3 **Departure Port Code**

The departure port code as designated by IATA.

4 **Arrival City Code**

The arrival city code as designated by IATA. These are usually the same as the airport code unless the airport belongs to a multi airport city, e.g. LON is the city code for LHR, LGW, LCY, STN and LTN airports.

5 **Arrival Port Code**

The arrival port code as designated by IATA.

6 **Effective From Date**

The local effective from date shown as "CCYYMMDD".

7 **Effective To Date**

The local effective to date shown as "CCYYMMDD." If a schedule is effective beyond that of the period chosen, the date will appear as 20380101

8 **Operating Days of Week**

The local operating departure days of the week. 1 = Monday, 2 = Tuesday etc.

9 **Arrival Day Marker**

The arrival day marker shows if the connection arrives on a different day to when it departed e.g. '-1' = previous day,'0' = same day, '1' = next day, '2' = 2 days later etc.

10 **Connection Elapsed Time**

The elapsed journey time of the connection in minutes.

11 **QSI**

The QSI value calculated for the connection. This will be the same on all legs related to the connection.

12 **Frequency**

Frequency for the connection. If the flights have open dated effective period, the frequency is calculated against the validity period of the Global Flight Connections. If the flights have effective dates other than open dated, the values are calculated within the period of effective period of connection.

| 13 | **Leg 1 Departure City Code** |

The departure city code of the leg as designated by IATA. These are usually the same as the airport code unless the airport belongs to a multi airport city, e.g. LON is the city code for LHR, LGW, LCY, STN and LTN airports.

| 14 | **Leg 1 Departure Port Code** |

The departure port code of the leg as designated by IATA.

| 15 | **Leg 1 Arrival City Code** |

The arrival city code of the leg as designated by IATA. These are usually the same as the airport code unless the airport belongs to a multi airport city, e.g. LON is the city code for LHR, LGW, LCY, STN and LTN airports.

| 16 | **Leg 1 Arrival Port Code** |

The arrival port code of the leg as designated by IATA.

| 17 | **Leg 1 Carrier Code** |

The airline designator code of the leg assigned by either:
- IATA

| 18 | **Leg 1 Flight Number** |

The four-digit flight number of the leg.

| 19 | **Leg 1 Effective From Date** |

The local effective from date of the leg shown as "CCYYMMDD".

| 20 | **Leg 1 Effective To Date** |

The local effective to date of the leg shown as "CCYYMMDD." If a schedule is effective beyond that of the period chosen, the date will appear as 20380101

| 21 | **Leg 1 Operating Days of Week** |

The local operating departure days of the week of the leg. 1 = Monday, 2 = Tuesday etc.

| 22 | **Leg 1 Departure Time** |

The local departure time of the leg. The time is in 24 hour format expressed as hh:mm:ss.

| 23 | **Leg 1 Arrival Time** |

The local arrival time of the leg. The time is in 24 hour format expressed as hh:mm:ss.

24   **Leg 1 Arrival Day Marker**

The arrival day marker shows if the leg arrives on a different day to when it departed e.g. '-1' = previous day,'0' = same day, '1' = next day, '2' = 2 days later etc.

25   **Leg 1 Elapsed Time**

The elapsed journey time of the leg in minutes.

26   **Leg 1 Stops**

The number of stops on the leg.

27   **Leg 1 Equipment Type**

The IATA aircraft type code of the leg.

28   **Leg 1 Non-Operating Code Share Flight Numbers**

If the flight has a DEI010, indicating this is the operating carrier, then the non-operating carrier and flight number that duplicates with the leg will appear here.

29   **Leg 1 Operating Flight Number**

If the flight has a DEI050, indicating this is not the operating carrier, then the operating carrier and flight number that duplicates with the leg will appear here.

30   **Leg 1 Distance**

The great circle distance between the departure and arrival port on the leg expressed in statute miles.

31   **Leg 1 Departure Country**

The departure country code of the leg assigned by the ISO and used by IATA.

32   **Leg 1 Arrival Country**

The arrival country code of the leg assigned by the ISO and used by IATA.

33   **Leg 2 Departure City Code**

The departure city code of the leg as designated by IATA. These are usually the same as the airport code unless the airport belongs to a multi airport city, e.g. LON is the city code for LHR, LGW, LCY, STN and LTN airports.

34   **Leg 2 Departure Port Code**

The departure port code of the leg as designated by IATA.

35   **Leg 2 Arrival City Code**

The arrival city code of the leg as designated by IATA. These are usually the same as the airport code unless the airport belongs to a multi airport city, e.g. LON is the city code for LHR, LGW, LCY, STN

and LTN airports.

36   Leg 2 Arrival Port Code

The arrival port code of the leg as designated by IATA.

37   Leg 2 Carrier Code

The airline designator code of the leg assigned by either:
- IATA

38   Leg 2 Flight Number

The four-digit flight number of the leg.

39   Leg 2 Effective From Date

The local effective from date of the leg shown as "CCYYMMDD".

40   Leg 2 Effective To Date

The local effective to date of the leg shown as "CCYYMMDD." If a schedule is effective beyond that of the period chosen, the date will appear as 20380101

41   Leg 2 Operating Days of Week

The local operating departure days of the week of the leg. 1 = Monday, 2 = Tuesday etc.

42   Leg 2 Departure Time

The local departure time of the leg. The time is in 24 hour format expressed as hh:mm:ss.

43   Leg 2 Arrival Time

The local arrival time of the leg. The time is in 24 hour format expressed as hh:mm:ss.

44   Leg 2 Arrival Day Marker

The arrival day marker shows if the leg arrives on a different day to when it departed e.g. '-1' = previous day,'0' = same day, '1' = next day, '2' = 2 days later etc.

45   Leg 2 Elapsed Time

The elapsed journey time of the leg in minutes.

46   Leg 2 Stops

The number of stops on the leg.

47   Leg 2 Equipment Type

The IATA aircraft type code of the leg.

48   Leg 2 Non-Operating Code Share Flight Numbers

If the flight has a DEI010, indicating this is the operating carrier, then the non-operating carrier and flight number that duplicates with the flight will appear here.

49   **Leg 2 Operating Flight Number**

If the flight has a DEI050, indicating this is not the operating carrier, then the operating carrier and flight number that duplicates with the flight will appear here.

50   **Leg 2 Distance**

The great circle distance between the departure and arrival port on the leg expressed in statute miles.

51   **Leg 2 Departure Country**

The departure country code of the leg assigned by the ISO and used by IATA.

52   **Leg 2 Arrival Country**

The arrival country code of the leg assigned by the ISO and used by IATA.

Configurations available

OAG can provide configuration options to filter out data in the Global Flight Connections according to customer requirements. The parameters that can be used to filter out the required data for each delivery are:

- Circuity (up to 200%, which is a maximum possible value in this file);

- Origin (by cities, countries or ports);

- Destination (by cities, countries or ports);

- Gateway (by cities, countries or ports);

- Origin and Destination pairs (by cities, countries or ports);

- Maximum connecting time (up to 12 hours, which is a maximum possible value in this file);

- Maximum elapsed time (up to 48 hours, which is a maximum possible value in this file);

- Published carriers (on any leg by a list of IATA carrier codes);

- Configure to only online connections;

- Low cost carriers (on at least one leg or both legs);

* we are constantly working to improve our products and more configuration options will be available in further updates of this product.

Customers are welcome to contact OAG to discuss custom configurations and other requirements for connections files. OAG has the data and capabilities to produce data solutions that can satisfy more custom customer requirements.

Delivery

- A flat file is delivered compressed using zip compression method.

- For each customer that subscribe to the Global Flight Connections or buy a single production of the file a standard delivery method offered is "pull from OAG FTP" (Credentials are provided).