



CONNECTIONS ANALYSER

GLOSSARY

SEPTEMBER 2017

CONNECTIONS ANALYSER – USER GUIDE

GLOSSARY

Aircraft Categories	Code	Description
	<i>A</i>	<i>Amphibian / Sea Plane</i>
	<i>H</i>	<i>Helicopter</i>
	<i>JN</i>	<i>Pure Jet (Narrowbody)</i>
	<i>JW</i>	<i>Pure Jet (Widebody)</i>
	<i>P</i>	<i>Piston Engined</i>
	<i>S</i>	<i>Surface Transport</i>
	<i>T</i>	<i>Turbo Prop</i>
Alliance		Constraint to limit selection to specific alliance grouping, or none
Arr. Flight No		Four figure flight number
Carrier		Carrier name or two letter carrier code
Carrier Leg		The specific part of the journey – different carriers can be specified on each leg
Connection Type		<i>Online</i> – a connection using flights operated by the same carrier <i>Interline</i> – a connection using flights operated by carriers who have an interline agreement or the same carrier <i>All</i> – a connection using online and interline types plus all carriers without an interline agreement
Custom MCT		Option to override OAG MCT exception tables connection times and to use your own preferred times
Destination		The point of arrival for a flight
Equipment		Type of aircraft used for a flight, as represented by a three letter code or a name
Equipment Group		Aircraft type group such as helicopter or narrow-body jet
Flight Type		Option for all flights or just international flights or domestic flights
FreightClass		Cargo classes on flight
	<i>BB</i>	<i>Loose load cargo</i>
	<i>LL</i>	<i>Unit Load Devices (Containers)</i>
	<i>LP</i>	<i>Unit Load Devices (Containers)/Pallets</i>
	<i>MG</i>	<i>Mail</i>
	<i>PP</i>	<i>Pallets</i>
	<i>XX</i>	<i>Not for use in cargo</i>

Gateway	This refers to one or more via airport codes represented by a three letter IATA code or name																																																		
Gateway Airport	Used in the Missed Connections Report, this is the airport the query will focus on.																																																		
Max. Circuity	Great circle distance circuity in percentage																																																		
Miss Connect Window	Allows you to build potential connections using a time window outside the minimum and maximum connection times used eg -10 minutes specifies all missed connections that occur 10 minutes behind the MCT. +10 minutes represents all missed connections that occur 10 minutes beyond the MCT.																																																		
Origin	Point of departure for a flight represented by a three letter IATA code or a name																																																		
Passenger Classes	<table border="0"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>A</td><td><i>First Class Discounted</i></td></tr> <tr><td>B</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>C</td><td><i>Business Class</i></td></tr> <tr><td>D</td><td><i>Business Class Discounted</i></td></tr> <tr><td>E</td><td><i>Shuttle Service - No Reservation needed</i></td></tr> <tr><td>F</td><td><i>First Class</i></td></tr> <tr><td>G</td><td><i>Conditional Reservation</i></td></tr> <tr><td>H</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>J</td><td><i>Business Class Premium</i></td></tr> <tr><td>K</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>L</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>M</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>N</td><td><i>Discounted Economy Class</i></td></tr> <tr><td>P</td><td><i>First Class Premium</i></td></tr> <tr><td>Q</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>R</td><td><i>Supersonic</i></td></tr> <tr><td>S</td><td><i>Economy/Coach</i></td></tr> <tr><td>T</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>U</td><td><i>Shuttle Service - No Reservation needed</i></td></tr> <tr><td>V</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>W</td><td><i>Economy/Coach Premium</i></td></tr> <tr><td>X</td><td><i>Economy/Coach Discounted</i></td></tr> <tr><td>Y</td><td><i>Economy/Coach</i></td></tr> <tr><td>Z</td><td><i>Business Discounted</i></td></tr> </tbody> </table>	Code	Description	A	<i>First Class Discounted</i>	B	<i>Economy/Coach Discounted</i>	C	<i>Business Class</i>	D	<i>Business Class Discounted</i>	E	<i>Shuttle Service - No Reservation needed</i>	F	<i>First Class</i>	G	<i>Conditional Reservation</i>	H	<i>Economy/Coach Discounted</i>	J	<i>Business Class Premium</i>	K	<i>Economy/Coach Discounted</i>	L	<i>Economy/Coach Discounted</i>	M	<i>Economy/Coach Discounted</i>	N	<i>Discounted Economy Class</i>	P	<i>First Class Premium</i>	Q	<i>Economy/Coach Discounted</i>	R	<i>Supersonic</i>	S	<i>Economy/Coach</i>	T	<i>Economy/Coach Discounted</i>	U	<i>Shuttle Service - No Reservation needed</i>	V	<i>Economy/Coach Discounted</i>	W	<i>Economy/Coach Premium</i>	X	<i>Economy/Coach Discounted</i>	Y	<i>Economy/Coach</i>	Z	<i>Business Discounted</i>
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Period	Selected dates, week or month																																																		
QSI	Quality of Service Index – a calculated measure of attractiveness of a flight relative to others with the option to override the default coefficients used in the calculation (see QSI Parameters and Coefficients)																																																		

Phantom Flights Option to add your own flights to be used in potential connections

Restriction Display Restriction codes followed by the display indicator 1 = published, 0 = unpublished.

<i>Traffic Restriction</i>	<i>Published Indicator</i>	<i>Description</i>
<i>(blank)</i>		<i>No restriction applies</i>
<i>A</i>	<i>0</i>	<i>This flight cannot be used as a direct service or as part of any Transfer Connection</i>
<i>B</i>	<i>1</i>	<i>This flight cannot be used as part of a Transfer Connection</i>
<i>C</i>	<i>1</i>	<i>A passenger may travel on this flight as a direct service. A passenger may also travel on this flight as part of a Domestic Transfer Connection</i>
<i>D</i>	<i>1</i>	<i>A passenger may only travel on this flight as part of an International Online Transfer Connection or as part of a through international journey within which a stopover is being made and onward travel is on the same airline. Further restrictions apply when constructing connections.</i>
<i>E</i>	<i>1</i>	<i>A passenger may only travel on this flight as part of an Online Transfer Connection or as part of a through journey within which a stopover is being made and onward travel is on the same airline. Further restrictions apply when constructing connections.</i>
<i>F</i>	<i>1</i>	<i>A passenger may travel on this flight as a direct service. A passenger may also travel on this flight as part of an Online Transfer Connection</i>
<i>G</i>	<i>0</i>	<i>A passenger may only travel on this flight as part of an Online Transfer Connection. A further restriction applies when constructing connections as the connection is not valid if all legs have this restriction</i>
<i>H</i>	<i>0</i>	<i>This segment must not be displayed</i>
<i>I</i>	<i>0</i>	<i>Technical Landing</i>
<i>K</i>	<i>0</i>	<i>A passenger may only travel on this flight as part of a Transfer Connection</i>
<i>M</i>	<i>1</i>	<i>A passenger may only travel on this flight if it forms part of a through international journey within which a stopover is being made and onward travel is on the same airline</i>
<i>N</i>	<i>0</i>	<i>A passenger may only travel on this flight if it forms part of an International Transfer Connection</i>
<i>O</i>	<i>0</i>	<i>A passenger may only travel on this flight if it forms part of an International Online Transfer Connection</i>
<i>Q</i>	<i>1</i>	<i>A passenger may only travel on this flight as part of an International Online Transfer Connection or if it forms part of a through international journey within which a stopover is being made and onward travel is on the same airline</i>
<i>T</i>	<i>1</i>	<i>A passenger may only travel on this flight as part of a through journey within which a stopover is being made and onward travel is on the same airline</i>

V	1	<i>A passenger may only travel on this flight as part of a Transfer Connection or if it forms part of a journey within which a stopover is being made</i>
W	1	<i>A passenger may only travel on this flight as part of an International Transfer Connection or if it forms part of a through international journey within which a stopover is being made</i>
X	1	<i>A passenger may only travel on this flight as part of an Online Transfer Connection or as part of a through journey within which a stopover is being made and onward travel is on the same airline</i>
Y	0	<i>This flight can only be used as part of an on-line Transfer Connection</i>

Service Types	Description (Passenger, cargo or both type of flights)
	A <i>Freighter – Additional Flights Only</i>
	C <i>Passenger – Scheduled Charter Flights Only</i>
	F <i>Freighter Flights Only</i>
	G <i>Passenger – Additional Flights Only</i>
	J <i>Passenger Flights Only</i>
	M <i>Mail only</i>
	Q <i>Passenger/cargo in cabin (combi).</i>
	S <i>Passenger shuttle mode</i>
Stops	Number of stops made between an origin and a destination of a particular leg
Trip type – Local	Flight segment with no connections
Trip Type – Single	Travel between an origin airport and a destination airport involving two flights and a single connection at a gateway airport
Trip Type – Double	Travel between an origin airport and a destination airport involving three flights and connections at two gateway airports
Type of Operation	A marker to show if the carrier is operating or non-operating. Created by OAG duplication based on available information (N.B. only flights with duplications are marked, unmarked records are also operating by definition)

QSI PARAMETERS & COEFFICIENTS

Stops	Coefficient
0	2
1	0.25
2	0.05
3	0.03
4	0.01

5	0.01
6	0.01

Alliance member	Coefficient
Alliance member	1.0
Non Alliance member	0.5

Domicile carrier	Coefficient
Domicile carrier	1.0
Non Domicile carrier	0.5

Equipment	Coefficient
Narrow body	0.8
Wide body	1.0
Regional jets	0.5
Turbo-prop	0.25
Surface	0.01
Helicopter	0.01
Amphibious	0.01
Jet	0.5
Piston	0.25

Departure Time	Coefficient
0000-0059	0.1
0100-0159	0.1
0200-0259	0.1
0300-0359	0.1
0400-0459	0.1
0500-0559	0.2
0600-0659	0.4
0700-0759	0.5
0800-0859	0.7
0900-0959	0.85
1000-1059	1.0
1100-1159	0.85
1200-1259	0.7
1300-1359	0.5
1400-1459	0.5
1500-1559	0.5
1600-1659	0.7
1700-1759	0.7
1800-1859	1.0
1900-1959	1.0
2000-2059	0.85
2100-2159	0.5
2200-2259	0.2
2300-2359	0.1

Elapsed Time	Coefficients
Shortest duration	1.0
Second shortest	0.8
Third shortest	0.65
Others	0.5
Longest duration	0.1

CarrierCategory	Coefficients
Mainline	1.0
LCC	0.5

Connection Type	Coefficient
Online	1.0
Interline	0.1
None	0.01

ConnectionWaitTime	Coefficient
0-45 mins	1.0
46-90 mins	0.75
91-180 mins	0.5
180 mins+	0.1

Arrival Time	Coefficient
0000-0059	0.1
0100-0159	0.1
0200-0259	0.1
0300-0359	0.1
0400-0459	0.1
0500-0559	0.3
0600-0659	0.5
0700-0759	1.0
0800-0859	1.0
0900-0959	0.85
1000-1059	0.5
1100-1159	0.5
1200-1259	0.5
1300-1359	0.5
1400-1459	0.5
1500-1559	0.75
1600-1659	0.85
1700-1759	0.85
1800-1859	1.0
1900-1959	1.0
2000-2059	0.75
2100-2159	0.4
2200-2259	0.2
2300-2359	0.2