

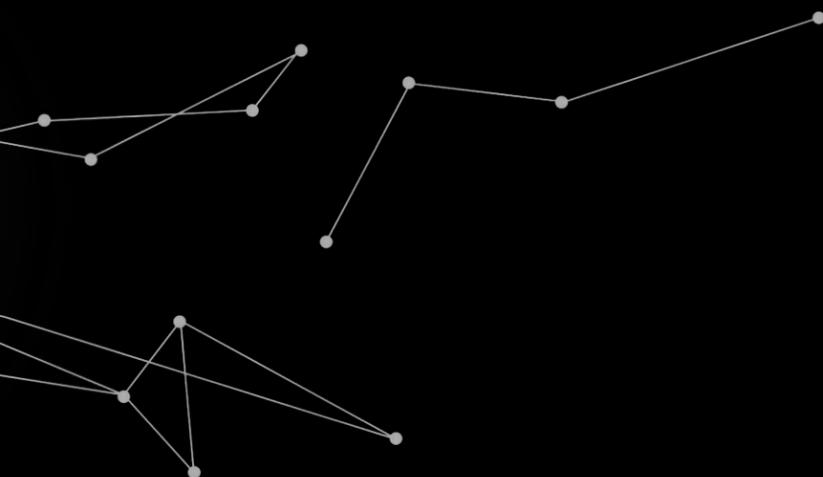
MEGAHUBS

DISCOVER THE MOST CONNECTED
AIRPORTS IN THE WORLD 2022



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ABOUT OAG MEGAHUBS 2022

OAG Megahubs 2022 reveals the **most connected airports** in the world including: -

- Top 50 Most Connected Airports (International)
- Top 25 Most Connected Low-Cost Carrier (LCC) Airports (International)
- Top 25 Most Connected US Airports (Domestic)
- Top 10 Most Connected Airports (International) by region: Europe, EMEA, North America, Latin America and Asia Pacific

Using a connectivity index it measures the effectiveness of the world's leading international airport hubs as connecting points – globally and regionally – as well as gateways into domestic markets and provides a platform for comparison.

The rankings are generated by comparing the **number of scheduled connections** to and from international flights with the **number of destinations** served from the airport.

Last released in 2019, Megahubs 2022 provides vital insights into travel recovery in the post-Covid era, how operations in the largest airports in the world have changed and how slower recovery patterns have affected global connectivity.

Combinations of flights and destinations which lead to connectivity at large airports in many instances have been radically changed. Some notable names are missing in 2022, in some parts of the world, while other airports have been elevated in the rankings as others have fallen.

Megahubs is created using OAG's flight data platform, which contains the most comprehensive airline schedules, and global flight connections database in the world, to dynamically build connections and create unique rankings.

Flight connectivity data is presented as a series of tables based on regional location and airline type. The ranking includes the dominant airline at each hub and the share of flights operated by that carrier.

Methodology

OAG has analyzed flight data for the top 100 largest airports for capacity and top 100 largest airports for international capacity (based on total scheduled seats from Sep-21 to Aug-22) and calculated the total number of all possible flight connections between inbound and outbound flights within a six-hour window (where either the inbound, outbound or both flights are international) on the busiest day – 12 August 2022 – for global aviation in the last year (Sep-21 to Aug-22).

Airports with fewer than 15 international destinations in August 2022 have been excluded. As a consequence of the changed ratio between the overall number of possible connections and the number of international destinations served, there will be changes to the index values in comparison with 2019.

The connectivity index has used the in-built business rules within OAG Connections Analyser plus the following customizable criteria were chosen for all operating flights:

- Single international* connections only to/from the chosen airports
- Maximum circuitry of 150
- Minimum Connection Time (MCT) varies by individual airport. OAG holds the MCT information for every commercial airport in operation
- Maximum connection window of six hours

The Top 25 Low-Cost Carrier (LCC) Megahubs use the same methodology but the restriction rule is limited to low-cost flights only.

The Top 25 US Domestic Megahubs use the same methodology but have different criteria as follows:

- Single domestic connections only to/from the chosen airports
- Maximum circuitry of 120
- Maximum Connection Window of three hours

*International flight connections include domestic to international, international to domestic and international to international connections.

TOP 50 GLOBAL MEGAHUBS

Key highlights:

What is the most connected airport in the world in 2022?

- **Chicago's O'Hare International Airport (ORD)** ranks #1 with a total of 66 international destinations served in August 2022.

How does the data compare to 2019?

- On the busiest day at **Chicago's O'Hare International Airport (ORD)** there were 43,350 possible connections within a six-hour window, compared to 65,294 in 2019.

Why does the US dominate the Top 20 most connected airports?

- In total, 13 of the Top 20 spots go to US airports.
- The top three global airport Megahubs are dominated by US carriers:
 1. United Airlines (46% of flights)
 2. American Airlines (85%)
 3. Delta Air Lines (77%)
- This combination of fewer international destinations but a strong domestic aviation market has enabled US airports to dominate the Megahubs this year, with the Top 7 places all going to US airports:
 1. Chicago O'Hare International
 2. Dallas/Ft Worth International Airport
 3. Atlanta Hartsfield-Jackson International
 4. Seattle-Tacoma International
 5. Denver International
 6. Los Angeles International
 7. New York J F Kennedy International

What is the most connected non-US airport in the world?

- The highest ranked non-US Megahub is **Mexico City Juarez International Airport (MEX)**, which is 8th, up from 15th place in 2019.
- Mexico kept its borders open through the pandemic and air services have almost recovered to pre-covid levels.
- Although the number of international destinations are only half what they were, the number of possible connections is only down by 16%, which has pushed MEX up the rankings and demonstrates the high level of connectivity being achieved from its operation.

What is the most connected airport outside the Americas?

- **Delhi - Indira Gandhi International Airport (DEL)** is the highest ranked airport outside of the Americas, placed 13th, with **Tokyo Haneda International Airport (HND)** just behind, and ranked 14th.

What is the most connected European airport?

- **London Heathrow (LHR)** is ranked highest in 22nd position, down from its #1 ranking in 2019.
- While LHR has maintained almost the same number of destinations served as it had in 2019, the number of possible connections on the busiest day has fallen by 40% as a result of schedule reductions which particularly affected high-frequency short-haul routes.

#1 ORD

Dominant Carrier
United Airlines

Share of Flights **46%**

#2 DFW

Dominant Carrier
American Airlines

Share of Flights **85%**

#3 ATL

Dominant Carrier
Delta Air Lines

Share of Flights **77%**

#4 SEA

Dominant Carrier
Alaska Airlines

Share of Flights **55%**

#5 DEN

Dominant Carrier
United Airlines

Share of Flights **52%**



Source: OAG

TOP 50 GLOBAL MEGAHUBS

The top 50 International Megahubs are those airports with the highest ratio of possible scheduled international connections to the number of destinations served by the airport. Online and interline connections are included and utilising the power of Connections Analyser, low-cost carriers (LCC) connections are also included.

Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
1	ORD	USA	3	United Airlines	46%
2	DFW	USA	19	American Airlines	85%
3	ATL	USA	8	Delta Air Lines	77%
4	SEA	USA	37	Alaska Airlines	55%
5	DEN	USA	80	United Airlines	52%
6	LAX	USA	13	Delta Air Lines	20%
7	JFK	USA	18	Delta Air Lines	34%
8	MEX	Mexico	15	Aeromexico	53%
9	IAH	USA	21	United Airlines	76%
10	MIA	USA	20	American Airlines	67%
11	EWR	USA	23	United Airlines	69%
12	CLT	USA	65	American Airlines	89%
13	DEL	India	35	IndiGo	34%
14	HND	Japan	22	Japan Airlines	39%
15	SFO	USA	31	United Airlines	47%
16	SYD	Australia	26	Qantas Airways	40%
17	MCO	USA	62	Southwest Airlines	22%
18	BOG	Colombia	32	Avianca	49%
19	YYZ	Canada	6	Air Canada	53%
20	MNL	Philippines	29	Cebu Pacific Air	37%
21	CGK	Indonesia	16	Lion Air	30%
22	LHR	United Kingdom	1	British Airways	47%
23	IST	Turkey	17	Turkish Airlines	82%
24	BOM	India	51	IndiGo	37%
25	LAS	USA	109	Southwest Airlines	40%

Source: OAG

TOP 50 GLOBAL MEGAHUBS

Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
26	BOS	USA	44	JetBlue Airways Corporation	25%
27	CDG	France	7	Air France	57%
28	YVR	Canada	27	Air Canada	43%
29	PHL	USA	49	American Airlines	68%
30	FRA	Germany	2	Deutsche Lufthansa AG	62%
31	AMS	Netherlands	4	KLM-Royal Dutch Airlines	52%
32	MAD	Spain	28	Iberia	48%
33	GRU	Brazil	46	LATAM Airlines Group	48%
34	BKK	Thailand	14	Thai Vietjet Air	17%
35	PHX	USA	117	American Airlines	43%
36	MUC	Germany	5	Deutsche Lufthansa AG	63%
37	DXB	United Arab Emirates	24	Emirates	39%
38	FLL	USA	59	Spirit Airlines	27%
39	KUL	Malaysia	12	AirAsia	38%
40	ATH	Greece	56	Aegean Airlines	33%
41	SGN	Viet Nam	43	Vietnam Airlines	42%
42	MEL	Australia	60	Qantas Airways	35%
43	SAW	Turkey	55	Pegasus Airlines	66%
44	BCN	Spain	45	Vueling Airlines	45%
45	BLR	India	90	IndiGo	54%
46	CUN	Mexico	78	Volaris	18%
47	LIM	Peru	58	LATAM Airlines Group	56%
48	SIN	Singapore	9	Singapore Airlines	38%
49	RUH	Saudi Arabia	73	Saudi Arabian Airlines	45%
50	YUL	Canada	41	Air Canada	56%

Source: OAG

TOP 25 LOW-COST MEGAHUBS

Key highlights:

- The dominant presence of IndiGo at Indian airports has propelled **Delhi - Indira Gandhi International Airport (DEL)** and **Mumbai - Chhatrapati Shivaji Maharaj International Airport (BOM)** to 1st and 2nd place.
- Ranked 3rd is **Denver International Airport (DEN)** thanks to the strong presence of Southwest Airlines - although other low-cost carriers also operate to and from Denver, most notably Frontier Airlines.
- **Las Vegas McCarran International Airport (LAS)** and **Orlando International Airport (MCO)** are ranked 4th and 5th respectively, and both are airports where Southwest Airlines has the dominant share of airline capacity.
- The other airports ranked in the Top 10 for low-cost connectivity are **Orlando International Airport (MCO)**, **Jakarta Soekarno-Hatta International Airport (CGK)**, **Manila Ninoy Aquino International Airport (MNL)**, **Mexico City Juarez Airport (MEX)** and **Fort Lauderdale International Airport (FLL)**.
- The highest ranked LCC airport Megahub in Europe is **Istanbul Sabiha Gokcen Airport (SAW)** in 11th place, where Pegasus Airlines has a 66% share of capacity at the airport.
- The only other European airport in the Top 25 LCC Airport Megahubs is **Barcelona (BCN)** which is ranked 13th.

#1 DEL #2 BOM

Dominant Carrier
IndiGo

Share of Flights **34%**

Dominant Carrier
IndiGo

Share of Flights **37%**

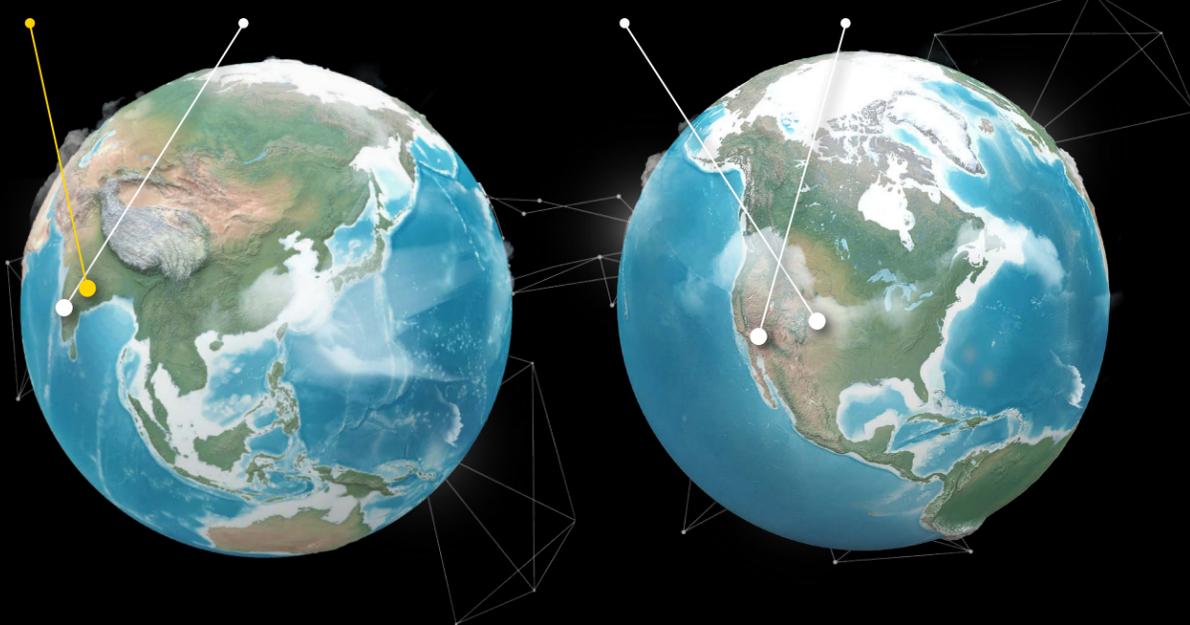
#3 DEN #4 LAS

Dominant Carrier
United Airlines

Share of Flights **52%**

Dominant Carrier
Southwest Airlines

Share of Flights **38%**



TOP 25 LOW-COST MEGAHUBS

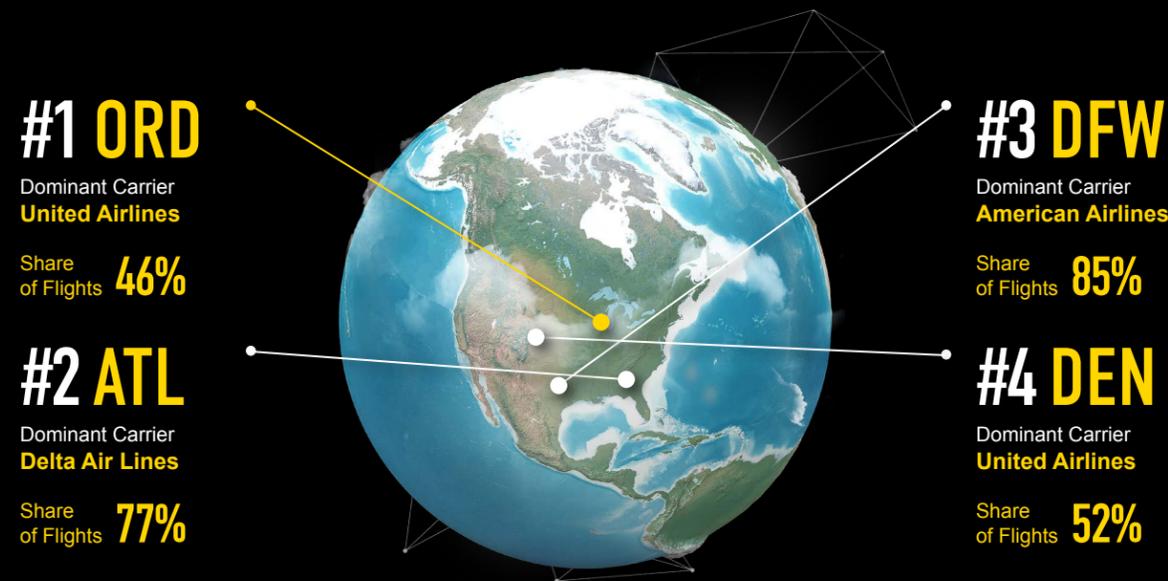
Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
1	DEL	India	6	IndiGo	34%
2	BOM	India	11	IndiGo	37%
3	DEN	USA	55	United Airlines	52%
4	LAS	USA	54	Southwest Airlines	38%
5	MCO	USA	15	Southwest Airlines	22%
6	CGK	Indonesia	8	Lion Air	30%
7	MNL	Philippines	2	Cebu Pacific Air	37%
8	MEX	Mexico	9	Aeromexico	53%
9	FLL	USA	13	Spirit Airlines	27%
10	SAW	Turkey	16	Pegasus Airlines	66%
11	PHX	USA	88	American Airlines	43%
12	BCN	Spain	10	Vueling Airlines	45%
13	LAX	USA	14	Delta Air Lines	20%
14	BLR	India	37	IndiGo	54%
15	HYD	India	51	IndiGo	62%
16	SYD	Australia	43	Qantas Airways	40%
17	SGN	Viet Nam	20	Vietnam Airlines	42%
18	DXB	United Arab Emirates	19	Emirates	39%
19	GRU	Brazil	23	LATAM Airlines Group	48%
20	KUL	Malaysia	1	AirAsia	38%
21	CUN	Mexico	36	Volaris	18%
22	ATL	USA	50	Delta Air Lines	77%
23	MEL	Australia	73	Qantas Airways	35%
24	ORD	USA	80	United Airlines	46%
25	RUH	Saudi Arabia	48	Saudi Arabian Airlines	45%

Source: OAG

TOP 25 US DOMESTIC MEGAHUBS

Key highlights:

- **Chicago O'Hare International Airport (ORD)** is ranked 1st among the US Domestic Airport Megahubs, the same position it held in 2019.
- 24 of the Top 25 Megahubs remain the same as in 2019, although their positions in the rankings have changed - this is unsurprising given the strength of the recovery in the US domestic market, which means that airports have generally been able to maintain a similar level of service to their pre-pandemic levels in 2019.
- Placed 2nd is **Atlanta Hartsfield-Jackson International Airport (ATL)**, the same as in 2019, and ranked #3 is **Dallas Ft Worth International Airport (DFW)**, also the same as in 2019.
- Movement in the rankings may be attributable to a particularly strong performance in leisure markets, with airports such as **Las Vegas McCarran International Airport (LAS)** and **Honolulu Airport (HNL)** moving up the rankings.
- Airports less associated with leisure travel have moved down the rankings, such as:
 - **Detroit Metropolitan Wayne Country Airport (DTW)** which moves down to 11th place (from 6th in 2019)
 - **Minneapolis/St Paul International Airport (MSP)** which moves down to 12th place (from 7th in 2019)
 - **Houston Intercontinental Airport (IAH)** which moves down to 17th place (from 9th in 2019)
- The dominant airline at 20 of the Top 25 airports is one of five US legacy carriers, but four of the airports have low-cost carrier Southwest Airlines with the largest market share, and one has JetBlue as the major airline, showing just how much potential there is for low-cost connectivity.



TOP 25 US DOMESTIC MEGAHUBS

As the United States is currently the largest domestic aviation market in the world, we have included the Top 25 US Domestic Airport Megahubs. These airports are those with the highest ratio of possible scheduled connections to the number of destinations served by that airport.

Rank	Airport	Airport Name	Rank in 2019	Dominant Carrier (Domestic Flights only)	Share of Flights
1	ORD	Chicago O'Hare International	1	United Airlines	46%
2	ATL	Atlanta Hartsfield-Jackson International	2	Delta Air Lines	77%
3	DFW	Dallas/Fort Worth International	3	American Airlines	85%
4	DEN	Denver International	5	United Airlines	52%
5	CLT	Charlotte	4	American Airlines	89%
6	SEA	Seattle-Tacoma International	10	Alaska Airlines	55%
7	DCA	Washington Ronald Reagan National	22	American Airlines	58%
8	LAX	Los Angeles International	8	Delta Air Lines	20%
9	LAS	Las Vegas McCarran International	21	Southwest Airlines	40%
10	LGA	New York LaGuardia	14	Delta Air Lines	45%
11	DTW	Detroit Metropolitan Wayne County	6	Delta Air Lines	75%
12	MSP	Minneapolis/St Paul International	7	Delta Air Lines	74%
13	SLC	Salt Lake City	13	Delta Air Lines	73%
14	JFK	New York J F Kennedy International	30	Delta Air Lines	34%
15	HNL	Honolulu	19	Hawaiian Airlines	43%
16	PHX	Phoenix Sky Harbor International	12	American Airlines	43%
17	IAH	Houston Intercontinental	9	United Airlines	76%
18	SFO	San Francisco	16	United Airlines	47%
19	MDW	Chicago Midway International	18	Southwest Airlines	89%
20	DAL	Dallas Love Field	17	Southwest Airlines	92%
21	EWL	Newark Liberty International	23	United Airlines	69%
22	BOS	Boston Edward L Logan International	15	JetBlue Airways Corporation	25%
23	OGG	Kahului	24	Hawaiian Airlines	33%
24	BWI	Baltimore Washington International	25	Southwest Airlines	70%
25	IAD	Washington Dulles International	20	United Airlines	71%

Source: OAG

TOP 10 MEGAHUBS BY REGION

Key regional highlights:

- The Top 10 **North American** Megahubs achieve the highest average international connectivity index of any region.
- **Asia Pacific** has seen a significant change to its Top 10 Airport Megahubs:
 - Hong Kong did not make it into the Top 50 and so does not feature among the Top 10 Megahubs in Asia Pacific - by contrast, in 2019 Hong Kong was in second place in the Top 10 Asia Pacific Megahubs.
 - Singapore ranks 12th in Asia Pacific and therefore falls just outside the Top 10 Megahubs – in 2019 Singapore was in second place in the Top 10 Asia Pacific Megahubs.
- Kuala Lumpur International Airport (KUL) and Bangkok Suvarnabhumi International Airport (BKK) are ranked 8th and 7th respectively in 2022.
- In **Europe**, London Heathrow Airport (LHR) remains in 1st position while Athens (ATH), Sabiha Gokcen (SAW) and Barcelona (BCN), move into the Top 10, having been ranked lower than 10 in 2019.
- In the **Middle East and Africa**, Johannesburg Airport (JNB) has slipped out of the rankings, but Dubai (DXB) retains its number 1 position.
- Unsurprisingly, Mexico (MEX) remains the top-ranked airport Megahub in **Latin America**, and Cancun (CUN)

ASIA PACIFIC

Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
1	DEL	India	N/A	IndiGo	34%
2	HND	Japan	N/A	Japan Airlines	39%
3	SYD	Australia	7	Qantas Airways	40%
4	MNL	Philippines	10	Cebu Pacific Air	37%
5	CGK	Indonesia	6	Lion Air	30%
6	BOM	India	N/A	IndiGo	37%
7	BKK	Thailand	5	Thai Vietjet Air	17%
8	KUL	Malaysia	4	AirAsia	38%
9	SGN	Viet Nam	N/A	Vietnam Airlines	42%
10	MEL	Australia	N/A	Qantas Airways	35%

Source: OAG

EUROPE, MIDDLE EAST AND AFRICA

Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
1	LHR	United Kingdom	1	British Airways	51%
2	IST	Turkey	6	Turkish Airlines	79%
3	CDG	France	5	Air France	50%
4	FRA	Germany	2	Lufthansa German Airlines	63%
5	AMS	Netherlands	3	KLM-Royal Dutch Airlines	52%
6	MAD	Spain	7	Iberia	46%
7	MUC	Germany	N/A	Lufthansa German Airlines	59%
8	DXB	United Arab Emirates	N/A	Emirates	49%
9	ATH	Greece	N/A	Olympic Air	29%
10	SAW	Turkey	N/A	Pegasus Airlines	59%

Source: OAG

EUROPE

Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
1	LHR	United Kingdom	1	British Airways	51%
2	IST	Turkey	6	Turkish Airlines	79%
3	CDG	France	5	Air France	50%
4	FRA	Germany	2	Lufthansa German Airlines	63%
5	AMS	Netherlands	3	KLM-Royal Dutch Airlines	52%
6	MAD	Spain	7	Iberia	46%
7	MUC	Germany	N/A	Lufthansa German Airlines	59%
8	ATH	Greece	N/A	Olympic Air	29%
9	SAW	Turkey	N/A	Pegasus Airlines	59%
10	BCN	Spain	N/A	Vueling Airlines	42%

Source: OAG

MIDDLE EAST AND AFRICA

Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
1	DXB	United Arab Emirates	1	Emirates	49%
2	RUH	Saudi Arabia	4	Saudi Arabian Airlines	51%
3	DOH	Qatar	3	Qatar Airways	85%
4	JED	Saudi Arabia	6	Saudi Arabian Airlines	50%
5	ADD	Ethiopia	5	Ethiopian Airlines	93%
6	CAI	Egypt	8	Egyptair	52%
7=	AUH	United Arab Emirates	7	Etihad Airways	78%
7=	KWI	Kuwait	N/A	Kuwait Airways	27%
9	BAH	Bahrain	N/A	Gulf Air	66%
10	MCT	Oman	9	Oman Air	60%

Source: OAG

NORTH AMERICA

Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
1	ORD	USA	1	United Airlines	46%
2	DFW	USA	6	American Airlines	85%
3	ATL	USA	3	Delta Air Lines	79%
4	SEA	USA	N/A	Alaska Airlines	50%
5	DEN	USA	N/A	United Airlines	53%
6	LAX	USA	4	American Airlines	22%
7	JFK	USA	5	Delta Air Lines	37%
8	IAH	USA	8	United Airlines	81%
9	MIA	USA	7	American Airlines	75%
10	EWR	USA	9	United Airlines	70%

Source: OAG

LATIN AMERICA

Rank	Airport	Country	Rank in 2019	Dominant Carrier	Share of Flights
1	MEX	Mexico	1	Aeromexico	43%
2	BOG	Colombia	2	Avianca	58%
3	GRU	Brazil	3	LATAM Airlines Group	41%
4	CUN	Mexico	N/A	Interjet	14%
5	LIM	Peru	5	LATAM Airlines Group	53%

Source: OAG

GLOSSARY OF CODES

Code	Name	Country
ADD	Addis Ababa Bole international	Ethiopia
AMS	Amsterdam Schiphol	Netherlands
ATH	Athens International	Greece
ATL	Atlanta Hartsfield-Jackson International	USA
AUH	Abu Dhabi International	UAE
BAH	Bahrain International	Bahrain
BCN	Barcelona	Spain
BKK	Bangkok Suvarnabhumi International	Thailand
BLR	Bangalore International	India
BOG	El Dorado International (Bogota)	Colombia
BOM	Chhatrapati Shivaji Maharaj International (Mumbai)	India
BOS	Boston Edward L Logan International	USA
BWI	Baltimore Washington International	USA
CAI	Cairo International	Egypt
CDG	Paris Charles de Gaulle	France
CGK	Jakarta Soekarno-Hatta	Indonesia
CLT	Charlotte Douglas International	USA
CUN	Cancun International	Mexico
DAL	Dallas Love Field	USA
DCA	Washington Ronald Reagan National	USA
DEL	Indira Gandhi International (Delhi)	India
DEN	Denver International	USA
DFW	Dallas Dallas/Fort Worth International	USA
DOH	Hamad International (Doha)	Qatar
DTW	Detroit Metropolitan Wayne County	USA
DXB	Dubai International	UAE
EWR	Newark Liberty International	USA
FLL	Fort Lauderdale/Hollywood International	USA
FRA	Frankfurt International	Germany
GRU	Sao Paulo Guarulhos International	Brazil
HND	Tokyo International (Haneda)	Japan
HNL	Honolulu	USA
HYD	Hyderabad Rajiv Gandhi International	India
IAD	Washington Dulles International	USA
IAH	Houston George Bush Intercontinental	USA
IST	Istanbul	Turkey

Code	Name	Country
JED	King Abdulaziz International (Jeddah)	Saudi Arabia
JFK	New York J F Kennedy International	USA
KUL	Kuala Lumpur International	Malaysia
KWI	Kuwait International	Kuwait
LAS	Las Vegas McCarran International	USA
LAX	Los Angeles International	USA
LGA	New York LaGuardia	USA
LHR	London Heathrow	United Kingdom
LIM	Jorge Chavez International (Lima)	Peru
MAD	Madrid Adolfo Suarez-Barajas	Spain
MCO	Orlando International	USA
MCT	Muscat International	Oman
MDW	Chicago Midway International	USA
MEL	Melbourne	Australia
MEX	Mexico City Juarez International	Mexico
MIA	Miami International	USA
MNL	Manila Ninoy Aquino International	Philippines
MSP	Minneapolis/St Paul International	USA
MUC	Munich International	Germany
OGG	Kahului	USA
ORD	Chicago O'Hare International	USA
PHL	Philadelphia International	USA
PHX	Phoenix Sky Harbor International	USA
RUH	King Khalid International (Riyadh)	Saudi Arabia
SAW	Istanbul Sabiha Gokcen	Turkey
SEA	Seattle-Tacoma International	USA
SFO	San Francisco	USA
SGN	Tan Son Nhat International (Ho Chi Minh City)	Vietnam
SIN	Singapore Changi	Singapore
SLC	Salt Lake City	USA
SVO	Moscow Sheremetyevo International	Russian Federation
SYD	Sydney Kingsford Smith	Australia
YUL	Montreal Pierre Elliott Trudeau International	Canada
YVR	Vancouver International	Canada
YYZ	Toronto Lester B Pearson International	Canada
YVR	Vancouver International	Canada
YYZ	Toronto Lester B Pearson International	Canada

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