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CIRIUM **ON-TIME** PERFORMANCE MONTHLY REPORT

AIRLINES &
AIRPORTS

March 2025

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PERFORMANCE



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Advisory Board Update - On-Time Performance Program

The Most On-Time Airports

Large Airports Report
15

Medium Airports Report
16

Small Airports Report
17

Appendix

Why the world trusts our rankings
24

Report calculation - Airlines
25

Report calculation - Airports
26

Usage and Attribution
27

Glossary of terms
28

Cirium history
29

Cirium global offices
30

The Most On-Time Airlines

Global Airlines Report
6

Asia Pacific Airlines Report
7

North America Airlines Report
8

Europe Airlines Report
9

Latin America Airlines Report
10

Middle East & Africa Airlines Report
11

Cancellation Report

Total Global Flight Cancellations
21

Content

ADVISORY BOARD UPDATE - ON-TIME PERFORMANCE PROGRAM

Every year, we bring together our Advisory Board to review the On-Time Performance program. This year’s meeting was held in Dallas on March 12-13, and as always, we’re very grateful to the industry leaders who give their time and expertise to help shape the direction of this program. Their deep experience helps ensure we’re not only accurately representing airline and airport performance but also holding ourselves to the highest standards when it comes to methodology and category design.

The aim of the board is straightforward: we want to keep improving the OTP program year after year, and we want the data you see to have proper oversight behind it. That means taking a close look at how we define categories, reviewing how airlines and airports qualify, and making sure we’re comparing like with like—no small task in a global industry where operating environments vary so widely.

Here are a few key updates from this year’s session:

Low-Cost Carrier Category

This was a long-running discussion, and we’ve finally reached a decision: we’re retiring the low-cost carrier category. The reality is, our categories are built around operational characteristics or regional factors—not business models. And the LCC label has become increasingly difficult to define. Many airlines that started as low-cost now look very similar to full-service carriers—Southwest is a good example, now planning assigned seating when open seating was an LCC product differentiator. We’ve also had pushback

over the years from carriers offering premium cabins but still being classified as low-cost. It’s time to move on from that label. Former LCC airlines will continue to be eligible for inclusion in other categories, just like everyone else.

New Award: Most Improved OTP

The board also approved a new recognition this year: a “Most Improved” OTP award. This will go to the carrier that shows the greatest year-over-year improvement, based on its operating profile. It’s another way we want to highlight progress and performance—not just absolute rankings.

As always, a big thank you to the Advisory Board for their guidance and insight. Their contributions are critical to keeping Cirium’s OTP program the gold standard for performance measurement in aviation. We’ve got some meaningful changes in the works, and we’re looking forward to seeing how they play out in this year’s results.



Mike Malik
Advisory Board Member & Committee Chairperson

CIRIUM ON-TIME PERFORMANCE ADVISORY BOARD



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The MOST **ON-TIME** AIRLINES



THE MOST ON-TIME GLOBAL AIRLINES

	On-Time Ranking	On-Time Arrival	Tracked Flights	Completion Factor	Total Flights	Summary of Top Performers
Saudia (SV)	1	94.07%	98.21%	99.88%	16,005	89.53% Total On-Time Arrivals
SAS (SK)	2	91.92%	99.92%	99.18%	20,217	
Aeromexico (AM)	3	91.47%	99.94%	99.80%	16,144	
Qatar Airways (QR)	4	90.90%	99.94%	99.71%	15,883	97.61% Total Tracked Flights
Turkish Airlines (TK)	5	90.71%	99.94%	99.02%	31,638	
Wizz Air (W6)	6	88.00%	89.00%	99.95%	10,542	
Azul (AD)	7	87.52%	99.75%	99.00%	26,094	195,072 Total Flights
Emirates (EK)	8	87.37%	99.86%	99.72%	14,993	
Wizz Air Malta (W4)	9	87.11%	89.56%	99.94%	10,897	
Lufthansa (LH)	10	86.20%	99.98%	96.17%	32,659	

RELATIVE PERFORMANCE



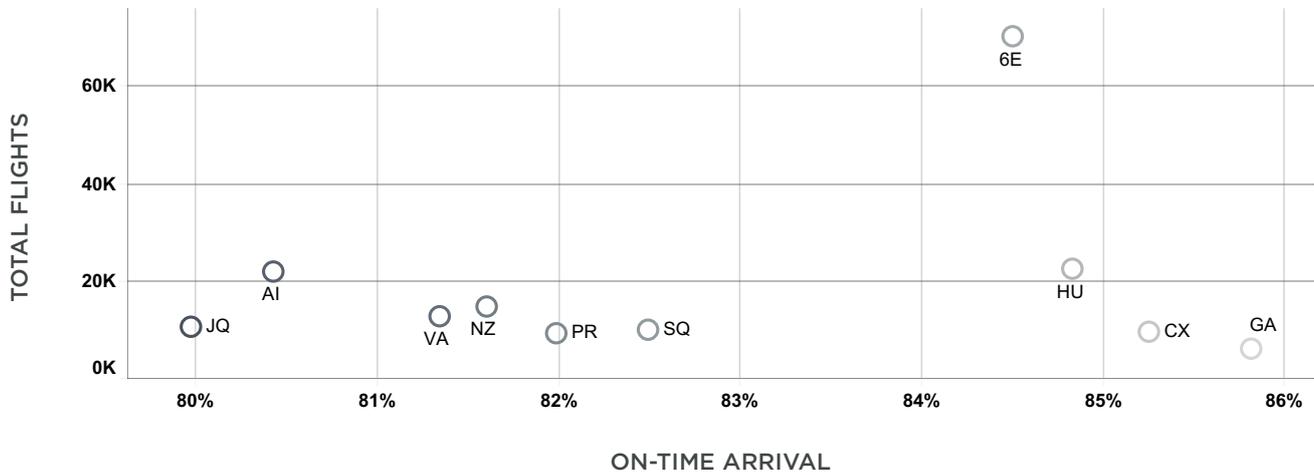
OPERATIONAL HIGHLIGHTS

	Completion Factor	Within Block Time	On-Time Arrivals	On-Time Departures
Saudia (SV)	99.88%	81.81%	94.07%	94.00%
SAS (SK)	99.18%	69.51%	91.92%	92.86%
Aeromexico (AM)	99.80%	74.13%	91.47%	93.26%
Qatar Airways (QR)	99.71%	77.07%	90.90%	91.87%
Turkish Airlines (TK)	99.02%	78.39%	90.71%	90.70%

THE MOST ON-TIME ASIA PACIFIC AIRLINES

	On-Time Ranking	On-Time Arrival	Tracked Flights	Completion Factor	Total Flights	Summary of Top Performers
Garuda Indonesia (GA)	1	85.81%	98.33%	96.14%	6,302	82.82% Total On-Time Arrivals
Cathay Pacific (CX)	2	85.25%	99.68%	99.67%	9,769	
Hainan Airlines (HU)	3	84.83%	84.07%	99.01%	22,688	96.64% Total Tracked Flights
IndiGo (6E)	4	84.50%	99.61%	99.92%	70,373	
Singapore Airlines (SQ)	5	82.49%	99.81%	99.63%	10,184	
Philippine Airlines (PR)	6	81.98%	99.42%	98.90%	9,459	189,562 Total Flights
Air New Zealand (NZ)	7	81.60%	98.44%	97.29%	14,941	
Virgin Australia (VA)	8	81.34%	87.43%	94.96%	12,945	
Air India (AI)	9	80.42%	99.95%	99.84%	22,112	
Jetstar (JQ)	10	79.97%	99.68%	95.75%	10,789	

RELATIVE PERFORMANCE



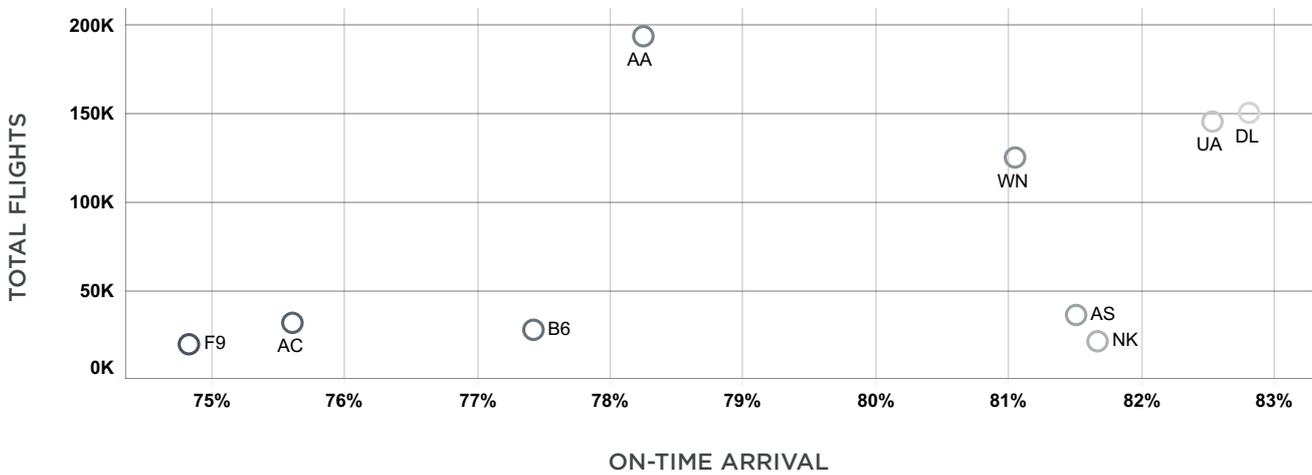
OPERATIONAL HIGHLIGHTS

	Completion Factor	Within Block Time	On-Time Arrivals	On-Time Departures
Garuda Indonesia (GA)	96.14%	64.71%	85.81%	88.46%
Cathay Pacific (CX)	99.67%	74.89%	85.25%	82.21%
Hainan Airlines (HU)	99.01%	71.38%	84.83%	85.33%
IndiGo (6E)	99.92%	59.17%	84.50%	87.12%
Singapore Airlines (SQ)	99.63%	71.86%	82.49%	83.91%

THE MOST ON-TIME NORTH AMERICA AIRLINES

	On-Time Ranking	On-Time Arrival	Tracked Flights	Completion Factor	Total Flights	Summary of Top Performers
Delta Air Lines (DL)	1	82.80%	99.97%	99.41%	151,038	79.51% Total On-Time Arrivals
United Airlines (UA)	2	82.53%	99.98%	99.28%	146,061	
Spirit Airlines (NK)	3	81.66%	94.31%	99.59%	21,572	
Alaska Airlines (AS)	4	81.50%	99.96%	99.34%	36,474	99.19% Total Tracked Flights
Southwest Airlines (WN)	5	81.04%	99.69%	99.38%	125,718	
American Airlines (AA)	6	78.24%	99.98%	98.14%	194,439	
JetBlue (B6)	7	77.42%	99.92%	99.34%	28,090	755,307 Total Flights
Air Canada (AC)	8	75.60%	99.99%	97.82%	32,030	
Frontier Airlines (F9)	9	74.82%	98.88%	99.02%	19,885	

RELATIVE PERFORMANCE



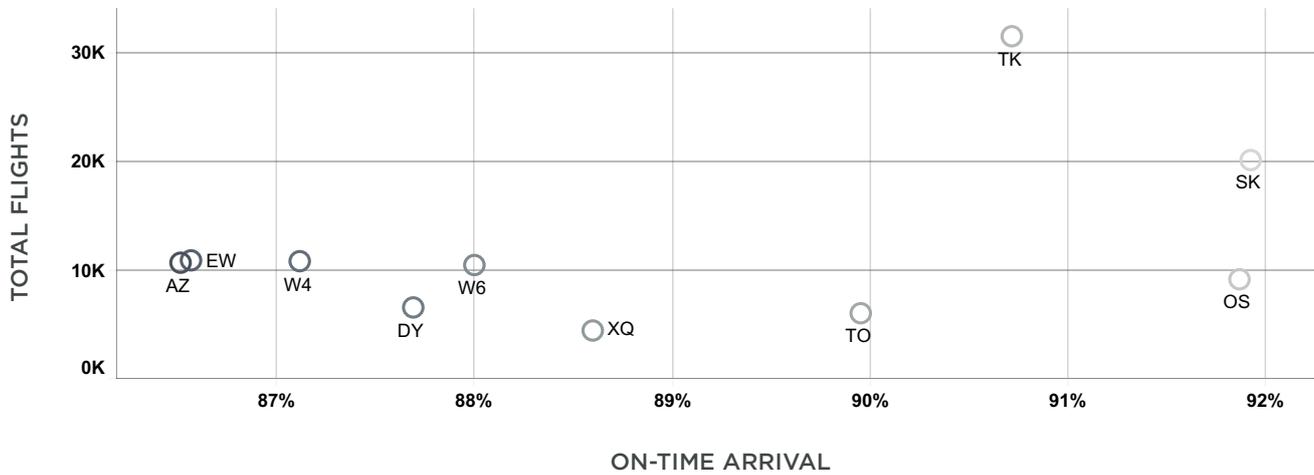
OPERATIONAL HIGHLIGHTS

	Completion Factor	Within Block Time	On-Time Arrivals	On-Time Departures
Delta Air Lines (DL)	99.41%	76.08%	82.80%	83.38%
United Airlines (UA)	99.28%	74.42%	82.53%	83.83%
Spirit Airlines (NK)	99.59%	75.95%	81.66%	81.39%
Alaska Airlines (AS)	99.34%	65.09%	81.50%	83.56%
Southwest Airlines (WN)	99.38%	78.70%	81.04%	79.82%

THE MOST ON-TIME EUROPE AIRLINES

	On-Time Ranking	On-Time Arrival	Tracked Flights	Completion Factor	Total Flights	Summary of Top Performers
SAS (SK)	1	91.92%	99.92%	99.18%	20,217	88.89% Total On-Time Arrivals
Austrian (OS)	2	91.86%	99.92%	98.72%	9,227	
Turkish Airlines (TK)	3	90.71%	99.94%	99.02%	31,638	
Transavia France (TO)	4	89.95%	93.34%	99.87%	6,098	96.88% Total Tracked Flights
SunExpress (XQ)	5	88.59%	97.39%	99.51%	4,505	
Wizz Air (W6)	6	88.00%	89.00%	99.95%	10,542	
Norwegian (DY)	7	87.69%	99.89%	99.38%	6,632	121,486 Total Flights
Wizz Air Malta (W4)	8	87.11%	89.56%	99.94%	10,897	
Eurowings (EW)	9	86.56%	99.88%	96.66%	10,974	
ITA Airways (AZ)	10	86.51%	99.97%	99.54%	10,756	

RELATIVE PERFORMANCE



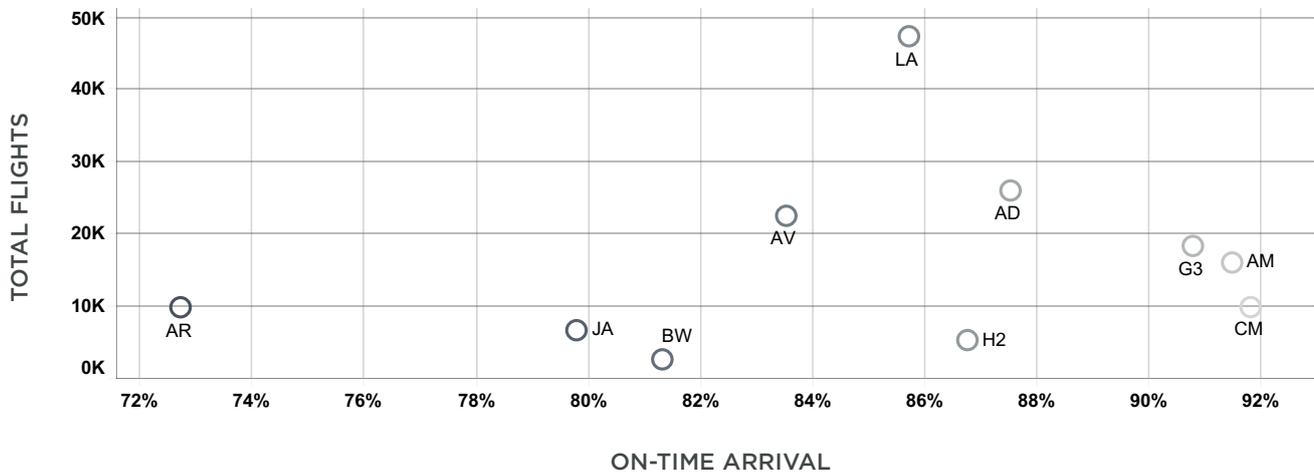
OPERATIONAL HIGHLIGHTS

	Completion Factor	Within Block Time	On-Time Arrivals	On-Time Departures
SAS (SK)	99.18%	69.51%	91.92%	92.86%
Austrian (OS)	98.72%	84.14%	91.86%	88.88%
Turkish Airlines (TK)	99.02%	78.39%	90.71%	90.70%
Transavia France (TO)	99.87%	88.61%	89.95%	83.76%
SunExpress (XQ)	99.51%	79.18%	88.59%	85.90%

THE MOST ON-TIME LATIN AMERICA AIRLINES

	On-Time Ranking	On-Time Arrival	Tracked Flights	Completion Factor	Total Flights	Summary of Top Performers
Copa Airlines (CM)	1	91.80%	99.92%	99.88%	9,984	85.13% Total On-Time Arrivals 99.63% Total Tracked Flights 165,612 Total Flights
Aeromexico (AM)	2	91.47%	99.94%	99.80%	16,144	
Gol (G3)	3	90.77%	99.97%	99.51%	18,439	
Azul (AD)	4	87.52%	99.75%	99.00%	26,094	
Sky Airline (H2)	5	86.75%	99.37%	99.63%	5,428	
LATAM Airlines (LA)	6	85.71%	99.81%	99.34%	47,410	
Avianca (AV)	7	83.52%	99.82%	97.46%	22,598	
Caribbean Airlines (BW)	8	81.31%	99.52%	99.02%	2,765	
JetSmart Chile (JA)	9	79.78%	98.86%	99.90%	6,790	
Aerolineas Argentinas (AR)	10	72.71%	99.37%	99.04%	9,960	

RELATIVE PERFORMANCE



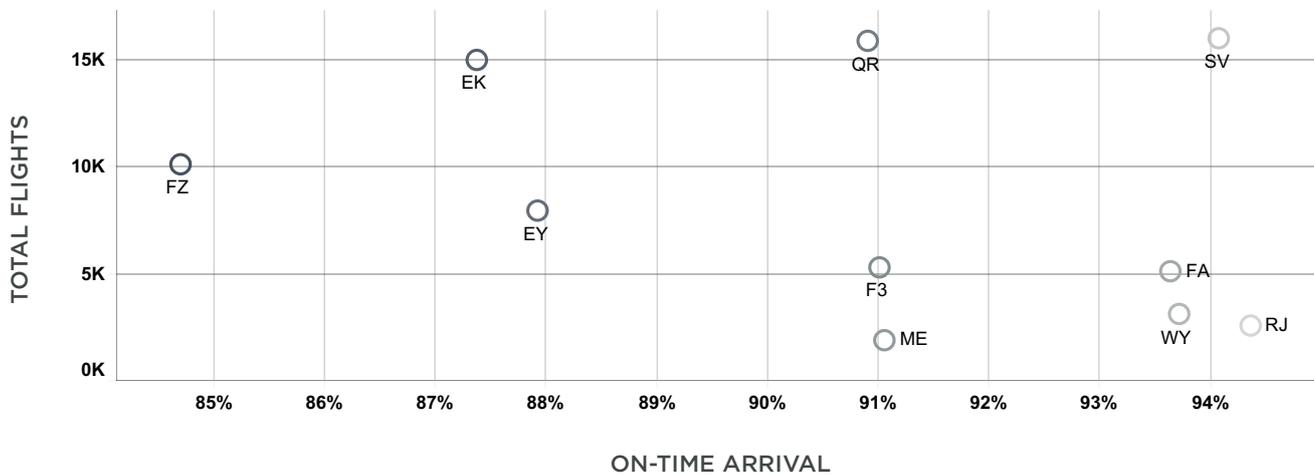
OPERATIONAL HIGHLIGHTS

	Completion Factor	Within Block Time	On-Time Arrivals	On-Time Departures
Copa Airlines (CM)	99.88%	69.98%	91.80%	95.29%
Aeromexico (AM)	99.80%	74.13%	91.47%	93.26%
Gol (G3)	99.51%	81.89%	90.77%	89.65%
Azul (AD)	99.00%	67.18%	87.52%	88.43%
Sky Airline (H2)	99.63%	58.97%	86.75%	90.57%

THE MOST ON-TIME MIDDLE EAST & AFRICA AIRLINES

	On-Time Ranking	On-Time Arrival	Tracked Flights	Completion Factor	Total Flights	Summary of Top Performers
Royal Jordanian (RJ)	1	94.36%	99.34%	99.00%	2,602	90.87% Total On-Time Arrivals
Saudia (SV)	2	94.07%	98.21%	99.88%	16,005	
Oman Air (WY)	3	93.71%	99.17%	99.97%	3,145	97.98% Total Tracked Flights
Safair (FA)	4	93.63%	96.51%	99.94%	5,137	
Middle East Airlines (ME)	5	91.05%	91.07%	99.69%	1,920	
Flyadeal (F3)	6	91.01%	97.44%	100.00%	5,317	83,093 Total Flights
Qatar Airways (QR)	7	90.90%	99.94%	99.71%	15,883	
Etihad Airways (EY)	8	87.92%	98.70%	99.70%	7,965	
Emirates (EK)	9	87.37%	99.86%	99.72%	14,993	
Flydubai (FZ)	10	84.69%	99.57%	99.41%	10,126	

RELATIVE PERFORMANCE



OPERATIONAL HIGHLIGHTS

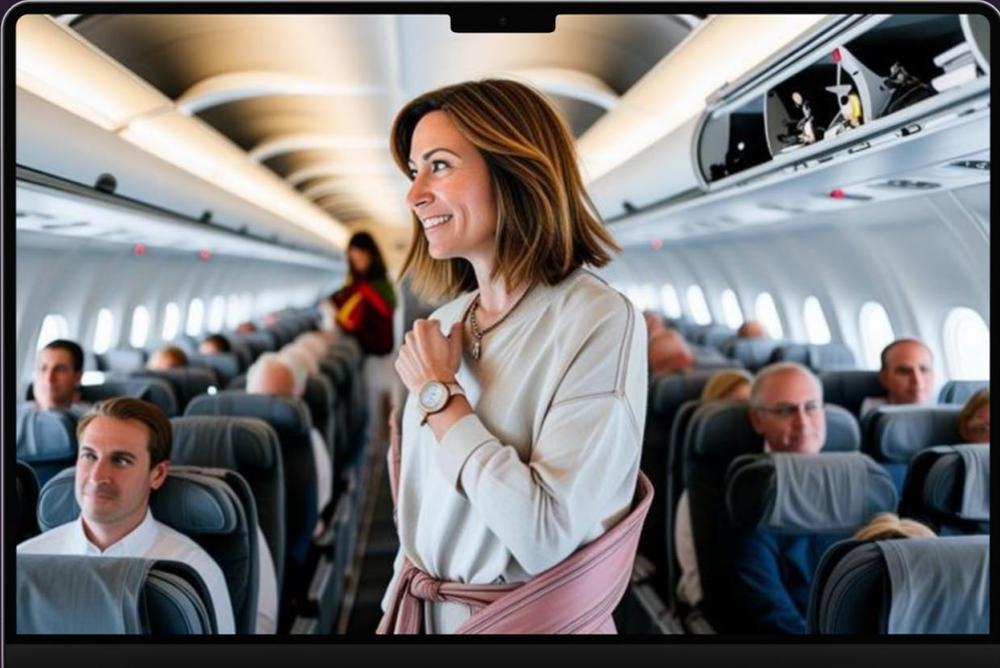
	Completion Factor	Within Block Time	On-Time Arrivals	On-Time Departures
Royal Jordanian (RJ)	99.00%	89.09%	94.36%	91.29%
Saudia (SV)	99.88%	81.81%	94.07%	94.00%
Oman Air (WY)	99.97%	75.26%	93.71%	95.45%
Safair (FA)	99.94%	83.00%	93.63%	92.97%
Middle East Airlines (ME)	99.69%	64.02%	91.05%	94.44%

TREND REPORT - AIRLINES

	Airline	Mar 25	Feb 25	Jan 25
GLOBAL AIRLINE RANKING				
1	Saudia (SV)	94.07%	86.20%	84.51%
2	SAS (SK)	91.92%	87.38%	79.34%
3	Aeromexico (AM)	91.47%	92.87%	89.20%
4	Qatar Airways (QR)	90.90%	87.24%	85.54%
5	Turkish Airlines (TK)	90.71%	78.83%	84.14%
ASIA PACIFIC REGION RANKING				
1	Garuda Indonesia (GA)	85.81%	78.24%	78.70%
2	Cathay Pacific (CX)	85.25%	84.96%	77.00%
3	Hainan Airlines (HU)	84.83%	82.41%	83.51%
4	IndiGo (6E)	84.50%	77.28%	73.40%
5	Singapore Airlines (SQ)	82.49%	82.19%	73.18%
NORTH AMERICA REGION RANKING				
1	Delta Air Lines (DL)	82.80%	80.55%	81.06%
2	United Airlines (UA)	82.53%	80.39%	80.74%
3	Spirit Airlines (NK)	81.66%	81.77%	81.13%
4	Alaska Airlines (AS)	81.50%	77.78%	82.59%
5	Southwest Airlines (WN)	81.04%	82.27%	83.30%
EUROPE REGION RANKING				
1	SAS (SK)	91.92%	87.38%	79.34%
2	Austrian (OS)	91.86%	90.65%	85.17%
3	Turkish Airlines (TK)	90.71%	78.83%	84.14%
4	Transavia France (TO)	89.85%	85.26%	79.68%
5	SunExpress (XQ)	88.59%	84.88%	83.99%
LATIN AMERICA REGION RANKING				
1	Copa Airlines (CM)	91.80%	92.33%	89.45%
2	Aeromexico (AM)	91.47%	92.87%	89.20%
3	Gol (G3)	90.77%	88.15%	89.77%
4	Azul (AD)	87.52%	79.72%	80.96%
5	Sky Airline (H2)	86.75%	82.22%	82.64%
MIDDLE EAST & AFRICA REGION RANKING				
1	Royal Jordanian (RJ)	94.36%	87.69%	84.81%
2	Saudia (SV)	94.07%	86.20%	84.51%
3	Oman Air (WY)	93.71%	79.58%	81.75%
4	Safair (FA)	93.63%	95.66%	94.49%
5	Middle East Airlines (ME)	91.05%	77.95%	81.67%

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The MOST **ON-TIME** AIRPORTS



THE MOST ON-TIME LARGE AIRPORTS

	On-Time Ranking	On-Time Departure	Tracked Flights	Total Flights	Avg Dep Delay	Routes Served	Summary of Top Performers
Riyadh King Khalid International Airport (RUH)	1	93.92%	88.40%	19,111	45	93	84.16% Total On-Time Departures
Istanbul Airport (IST)	2	91.89%	95.13%	36,877	46	287	
Doha Hamad International Airport (DOH)	3	91.67%	99.83%	19,908	49	177	
Oslo Gardermoen Airport (OSL)	4	91.44%	99.32%	16,953	36	103	
Copenhagen Airport (CPH)	5	91.22%	99.24%	17,614	39	142	
Santiago Arturo Merino Benitez International Airport (SCL)	6	90.76%	99.84%	13,956	49	64	95.57% Total Tracked Flights
Stockholm Arlanda Airport (ARN)	7	90.22%	99.79%	14,546	35	122	
Vienna International Airport (VIE)	8	88.87%	96.97%	17,513	35	159	
Lima Jorge Chavez International Airport (LIM)	9	88.54%	92.35%	15,126	57	64	362,955 Total Flights
Sao Paulo Congonhas Airport (CGH)	10	88.47%	98.57%	15,441	36	39	
Kolkata Netaji Subhas Chandra Bose Intl Airport (CCU)	11	88.08%	92.77%	12,701	62	64	
Mexico City Benito Juarez International Airport (MEX)	12	88.04%	95.30%	25,083	55	100	
Abu Dhabi Zayed International Airport (AUH)	13	87.29%	96.83%	13,701	58	119	66.54M Total Seats
Athens Eleftherios Venizelos International Airport (ATH)	14	86.19%	81.31%	16,933	34	134	
Honolulu International Airport (HNL)	15	86.18%	85.20%	14,054	53	57	
Chennai International Airport (MAA)	16	85.71%	97.56%	13,550	40	67	
Salt Lake City International Airport (SLC)	17	85.50%	99.73%	21,479	62	100	
Paris Orly Airport (ORY)	18	85.36%	98.40%	15,743	40	141	2,304 Total Routes
Munich Franz Joseph Strauss Airport (MUC)	19	85.27%	97.77%	24,247	32	179	
Hyderabad Rajiv Gandhi International Airport (HYD)	20	85.14%	97.05%	18,419	41	93	

OPERATIONAL HIGHLIGHTS

	On-Time Departure	On-Time Arrival	Total Routes Served	Total Airlines Served
Riyadh King Khalid International Airport (RUH)	93.92%	91.86%	93	57
Istanbul Airport (IST)	91.89%	89.04%	287	87
Doha Hamad International Airport (DOH)	91.67%	90.15%	177	48
Oslo Gardermoen Airport (OSL)	91.44%	89.40%	103	39
Copenhagen Airport (CPH)	91.22%	88.83%	142	53

THE MOST ON-TIME MEDIUM AIRPORTS

	On-Time Ranking	On-Time Departure	Tracked Flights	Total Flights	Avg Dep Delay	Routes Served	Summary of Top Performers
Panama City Tocumen International Airport (PTY)	1	95.13%	98.88%	11,285	48	84	82.43% Total On-Time Departures
Brasilia International Airport (BSB)	2	91.78%	100.00%	9,142	40	44	
Dammam King Fahd International Airport (DMM)	3	91.60%	86.92%	7,543	43	59	
Sharjah International Airport (SHJ)	4	91.17%	90.78%	8,255	49	92	
Viracopos-Campinas International Airport (VCP)	5	90.04%	99.92%	9,455	43	76	
Johannesburg O.R. Tambo International Airport (JNB)	6	89.09%	80.85%	15,589	40	77	94.90% Total Tracked Flights
Portland International Airport (PDX)	7	88.05%	99.89%	12,301	60	66	
Rio de Janeiro Galeao International Airport (GIG)	8	87.66%	98.23%	9,192	56	47	
Antalya Airport (AYT)	9	87.04%	82.30%	6,298	41	87	
Kuwait International Airport (KWI)	10	87.04%	81.61%	8,333	53	78	
Addis Ababa Bole International Airport (ADD)	11	87.03%	95.26%	11,973	32	121	200,513 Total Flights
San Jose Mineta International Airport (SJC)	12	86.55%	99.90%	8,405	55	37	
Dusseldorf Airport (DUS)	13	86.36%	98.79%	10,263	37	121	
Belo Horizonte International Airport (CNF)	14	85.89%	100.00%	9,472	46	66	
Warsaw Chopin Airport (WAW)	15	85.49%	95.11%	13,314	37	123	
Helsinki-Vantaa Airport (HEL)	16	85.14%	93.69%	12,230	35	101	32.52M Total Seats
London Luton Airport (LTN)	17	84.93%	98.30%	7,873	41	106	
Osaka Itami International Airport (ITM)	18	84.83%	99.45%	11,327	30	26	
Vaclav Havel Airport Prague (PRG)	19	84.74%	99.57%	7,995	40	105	
Sacramento International Airport (SMF)	20	84.58%	98.51%	10,268	53	47	
							1,563 Total Routes

OPERATIONAL HIGHLIGHTS

	On-Time Departure	On-Time Arrival	Total Routes Served	Total Airlines Served
Panama City Tocumen International Airport (PTY)	95.13%	92.25%	84	14
Brasilia International Airport (BSB)	91.78%	91.15%	44	6
Dammam King Fahd International Airport (DMM)	91.60%	90.58%	59	43
Sharjah International Airport (SHJ)	91.17%	86.04%	92	21
Viracopos-Campinas International Airport (VCP)	90.04%	87.56%	76	2

THE MOST ON-TIME SMALL AIRPORTS

	On-Time Ranking	On-Time Departure	Tracked Flights	Total Flights	Avg Dep Delay	Routes Served	Summary of Top Performers
Rhodes Diagoras International Airport (RHO)	1	95.78%	96.86%	638	29	23	85.22% Total On-Time Departures
Stavanger Airport (SVG)	2	94.52%	99.54%	3,553	40	20	
Beirut Rafic Hariri International Airport (BEY)	3	94.23%	94.03%	3,355	52	38	
El Salvador International Airport (SAL)	4	94.18%	87.44%	3,874	60	30	95.47% Total Tracked Flights
Rio de Janeiro Santos Dumont Airport (SDU)	5	92.43%	99.92%	4,883	44	5	
Porto Alegre Salgado Filho International Airport (POA)	6	91.55%	100.00%	4,150	48	17	
Cagliari Elmas Airport (CAG)	7	91.49%	99.90%	2,073	38	41	84,096 Total Flights
Izmir Adnan Menderes Airport (ADB)	8	91.21%	90.72%	4,944	55	62	
Amman Queen Alia International Airport (AMM)	9	91.18%	97.83%	5,307	56	75	
Fortaleza Pinto Martins International Airport (FOR)	10	91.15%	100.00%	2,842	48	22	13.78M Total Seats
Liverpool John Lennon Airport (LPL)	11	90.80%	87.27%	2,892	40	56	
Cape Town International Airport (CPT)	12	90.57%	85.59%	7,165	37	40	
Bergen Flesland Airport (BGO)	13	90.49%	99.87%	6,055	42	41	770 Total Routes
Recife International Airport (REC)	14	90.12%	99.27%	6,121	49	41	
Prince Mohammad Bin Abdulaziz Intl Airport (MED)	15	89.77%	85.44%	5,703	62	69	
EuroAirport Swiss (BSL)	16	89.19%	95.05%	4,455	38	76	
Bahrain International Airport (BAH)	17	89.18%	95.68%	5,467	45	54	
Spokane International Airport (GEG)	18	89.14%	100.00%	3,521	72	17	
Guayaquil Jose Joaquin de Olmedo Intl Airport (GYE)	19	88.79%	99.31%	2,921	79	18	
Trondheim Airport (TRD)	20	88.74%	95.73%	4,177	43	25	

OPERATIONAL HIGHLIGHTS

	On-Time Departure	On-Time Arrival	Total Routes Served	Total Airlines Served
Rhodes Diagoras International Airport (RHO)	95.78%	92.59%	23	9
Stavanger Airport (SVG)	94.52%	93.23%	20	9
Beirut Rafic Hariri International Airport (BEY)	94.23%	88.07%	38	25
El Salvador International Airport (SAL)	94.18%	90.13%	30	14
Rio de Janeiro Santos Dumont Airport (SDU)	92.43%	92.11%	5	3

TREND REPORT - AIRPORTS

	Airport	Mar 25	Feb 25	Jan 25
LARGE AIRPORT RANKING				
1	(RUH) Riyadh King Khalid International Airport	93.92%	88.32%	82.69%
2	(IST) Istanbul Airport	91.89%	81.31%	83.06%
3	(DOH) Doha Hamad International Airport	91.67%	88.98%	86.06%
4	(OSL) Oslo Gardermoen Airport	91.44%	88.21%	75.00%
5	(CPH) Copenhagen Airport	91.22%	86.09%	81.99%
MEDIUM AIRPORT RANKING				
1	(PTY) Panama City Tocumen International Airport	95.13%	95.10%	93.25%
2	(BSB) Brasilia International Airport	91.78%	89.70%	89.23%
3	(DMM) Dammam King Fahd International Airport	91.60%	83.20%	80.45%
4	(SHJ) Sharjah International Airport	91.17%	75.16%	76.46%
5	(VCP) Viracopos-Campinas International Airport	90.04%	78.50%	82.83%
SMALL AIRPORT RANKING				
1	(RHO) Rhodes Diagoras International Airport	95.78%	96.84%	93.33%
2	(SVG) Stavanger Airport	94.52%	92.95%	81.61%
3	(BEY) Beirut Rafic Hariri International Airport	94.23%	82.74%	86.28%
4	(SAL) El Salvador International Airport	94.18%	94.57%	89.77%
5	(SDU) Rio de Janeiro Santos Dumont Airport	92.43%	88.40%	90.14%



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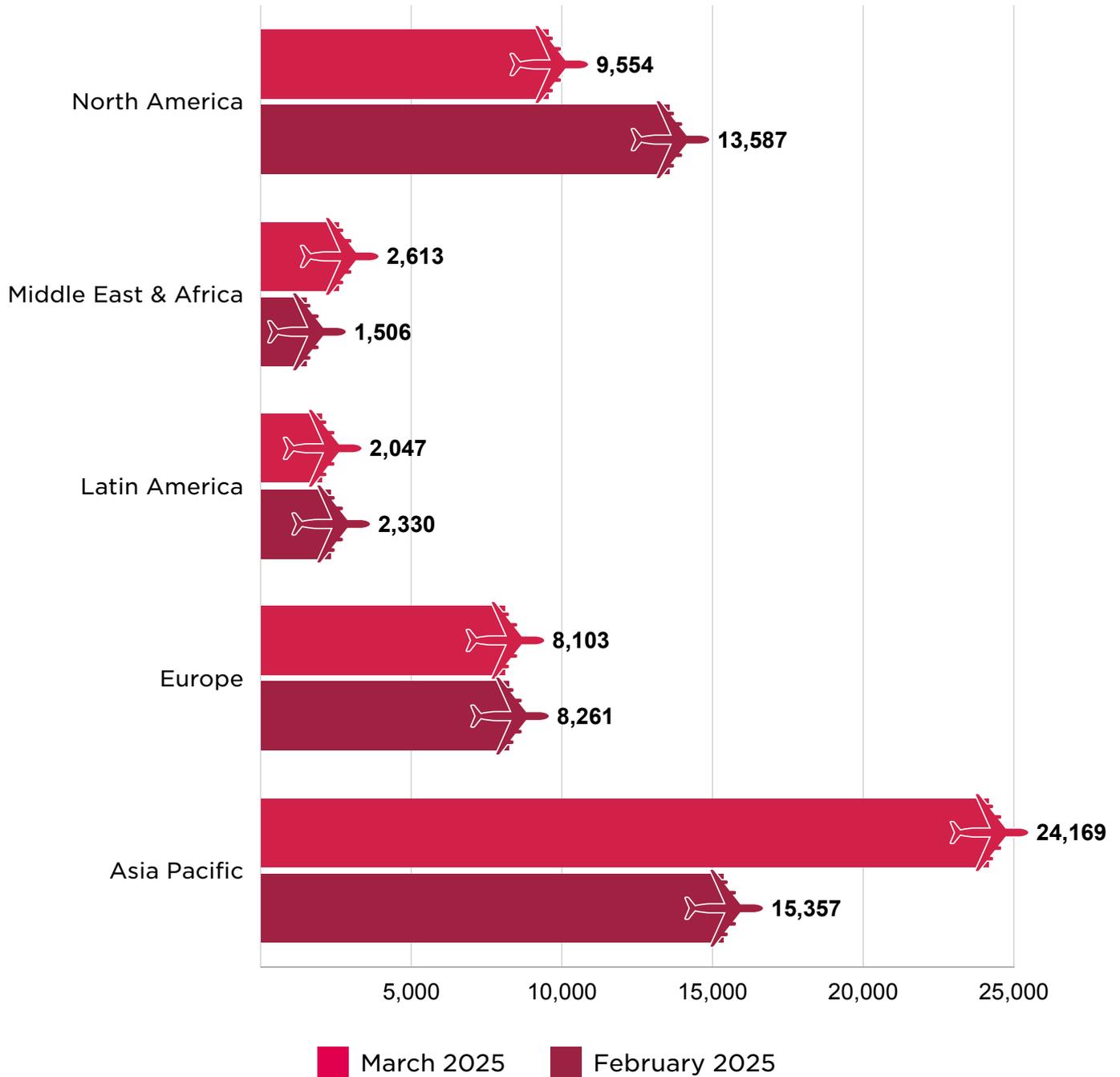
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Cancellation Report



TOTAL GLOBAL FLIGHT CANCELLATIONS



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Appendix



APPENDIX

WHY THE WORLD TRUSTS OUR RANKINGS

Cirium applies the **highest level of quality assurance to the data** that supports the On-Time Performance Review. We ensure the highest level of accuracy, timeliness, and coverage of the data, which is why the data and analyses are trusted by airlines and airports globally.

The experienced and dedicated Cirium data team collect, verify, and clean the data and then apply logic, algorithms and security to it.

This comprehensive structure is in place to achieve the 'quality balance' of the data that we use to rank airlines and airports.

Sophisticated tools and statistics validate the information and remove outliers and multisource verification fills in the gaps in single data sources. In cases of conflict, advanced algorithms identify the most reasonable data points, crosscheck the information, and determine consistency of information. Our expert team apply their in-depth knowledge in data and aviation to add extra validity to the data.

Cirium has a strict definition for what we consider as flight coverage for an airline or airport. For an airline to qualify for Cirium's On-Time Performance rankings, a carrier must meet the coverage standards, and we must have data fields which include estimated departures, actual departures, departure dates and arrival gates.

Cirium's approach to on-time performance data and the process involved means we immediately notice when changes or deviations occur.



APPENDIX

AIRLINE CALCULATIONS

We report OTP figures inclusive of all flights operated under a carrier's brand (mainline, wetlease, subsidiaries). To qualify for the Cirium OTP Report, there is an 80% actual gate arrival time data coverage requirement for all airline categories. These categories include Global and Major (by region).

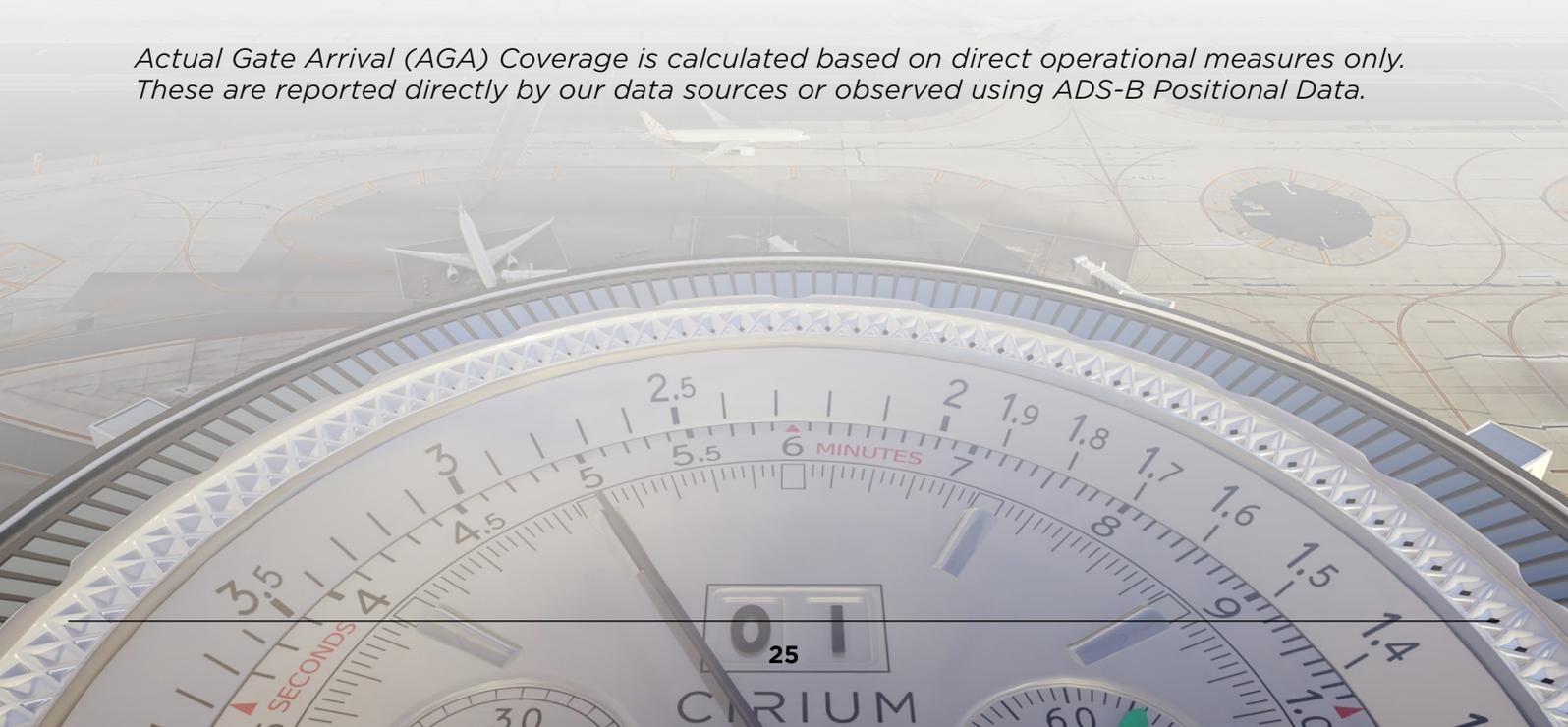
For the **Global Airlines category**, we consider the Top 10% of all passenger airlines by capacity and volume criteria — by Available Seat Kilometres (ASKs), flights and seats—the airline must also serve at least three regions.

For **Major Airlines by Region**, the threshold for ASKs, flights and seats, varies by region to accurately reflect the size of operations in that region.

The thresholds are:

Region	Flights, Seats, ASKs, Threshold
ASIA PACIFIC	Top 25%
EUROPE	Top 30%
LATIN AMERICA	Top 30%
MIDDLE EAST & AFRICA	Top 20%
NORTH AMERICA	Top 15%

Actual Gate Arrival (AGA) Coverage is calculated based on direct operational measures only. These are reported directly by our data sources or observed using ADS-B Positional Data.



APPENDIX

AIRPORT CALCULATIONS

Each month, Cirium reviews the total number of flights in a given month (approximately 3 million) for every airport globally in an ordered list, then looks at where the percentile demarcations fall. For the annual OTP review, **we take the total number of flights in a given year for every airport.**

Airports are selected based on a combination of factors, including:

LARGE AIRPORT

Seats
25-40m

Actual gate departure coverage
80% or better

Note: this category can include airports in the global airport category

MEDIUM AIRPORT

Seats
15-25m

Actual gate departure coverage
80% or better

SMALL AIRPORT

Seats
5-15m

Actual gate departure coverage
80% or better

Airport size categories are calculated during the last complete calendar year.

APPENDIX

USAGE & ATTRIBUTION

We ask you to cite Cirium if you extract and use the data and information in this report in your own content and marketing. Where possible please also link to www.cirium.com.

The data presented in this report derives from The Cirium Core, which holds information from over 2,000 sources. Cirium verifies and quality checks all the data as we process it. Cirium is solely responsible for all insights and analyses provided in this report.

As a neutral partner in the industry, we rank airlines and airports from an independent position. It is our mission to accelerate the industry's digital transformation.

“According to data provided by Cirium, an aviation analytics company, 94.07% of Saudia’s flights arrived on-time for the month of March.”

For questions about citing Cirium’s on-time performance analysis, please contact at media@cirium.com.

EXAMPLES OF HOW TO CITE US:

“Cirium, a company that provides data for the aviation industry, revealed that **85.81% of Garuda Indonesia’s flights** across the country **arrived on-time** in March.”

“Cirium’s study of **Delta Air Lines’ on-time performance** in March shows that **83.32% of its flights arrived on-time.**”

“Based on Cirium’s most recent data, SAS covered a **total of 20,205 flights** in March, resulting to **91.93% on-time arrival rate.**”

APPENDIX

GLOSSARY OF TERMS

A

AIRLINE CODE

The IATA code for the airline. This is the code of the Marketing Airline.

AVAILABLE SEAT KILOMETERS (ASKs)

The number of seats available multiplied by the number of kilometers between origin and destination.

B

BLOCK TIME

Referred to as B0. The percentage of flights that were completed within their scheduled time.

C

COMPLETION FACTOR

Completion factor which is the percentage of tracked flights that were completed (e.g., not canceled)

COVERAGE

The percentage of published flights for which we have an actual arrival gate time for airlines and an actual departure time for airports against which we can measure a flight's performance versus its schedule.

O

ON-TIME ARRIVAL

The percentage of completed flights that arrived at the gate on time. On time is defined as arriving within 15 minutes of the scheduled arrival time. The on-time arrival ranking is used to determine the top performing airlines.

ON-TIME DEPARTURE

The percentage of completed flights that departed at the gate on time. On time is defined as departing within 15 minutes of the scheduled departing time. The on-time departure ranking is used to determine the top performing airports.

ON-TIME RANKING

For each list of airlines and airports, on-time performance is ranked where a rank of 1 equates to the best performance.

S

SEATS (MILLIONS)

The estimated seat capacity of all scheduled flights.

T

TOTAL FLIGHTS

The total number of scheduled single segment flights (consisting of one origin and one destination).

TRACKED FLIGHTS

The percentage of published flights for which Cirium tracked an actual gate arrival time, cancellation or diversion.

APPENDIX

CIRIUM HISTORY

Cirium brings together powerful data and analytics to keep the world moving. Delivering insight, built from decades of experience in the sector, enabling travel companies, aircraft manufacturers, airports, airlines and financial institutions, among others, to make logical and informed decisions which shape the future of travel, grow revenues and enhance customer experiences. Cirium is part of RELX PLC, a global provider of information-based analytics and decision tools for professional and business customers.

1909

Launched the world's first weekly aerospace magazine.

1985

Launched airline- specific insights to airline C-suite with the title Airline Business.

1997

Created online news and data service for aerospace and airports (formerly known as ATI).

2004

Expanded in aerospace with the most comprehensive technical fleet database (known previously as ACAS).

2011

Grew portfolio with the addition of aircraft finance services with historical fleet and valuations data with acquisition of Ascend.

2014

Added historical airline schedules data to business with acquiring Innovata.

2016

The pioneer in global, real-time flight status data, FlightStats, brought into the group.

Expanded the group's offering with Diiio's fares, traffic and schedules analysis tools.

2019

New aviation analytics brand Cirium launched showcasing the industry's largest data store and an advanced solutions portfolio.

2020

Added live flight and navigational data to the Cirium portfolio, bringing in initiatives for System Wide Information Management (SWIM), with Snowflake Software.

2023

Introduced new aviation analytics tools to accelerate digital transformation and support the industry's sustainability goals under five product brands

Extended partnership with Aireon to offer satellite-based aircraft positional analytics.

2024

Launched EmeraldSky with a unique and unparalleled methodology, data and analytics to provide the world's most accurate measure of aircraft and flight emissions.

Introduced the On-Time AI Assistant, designed to enhance exploration of on time performance data, streamline data discovery, uncover insights, and answer operational questions.

APPENDIX

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