



<http://www.icao.int/sustainability/Pages/Air-Traffic-Monitor.aspx>

GLOBAL KEY FIGURES

AUG 2016
(versus AUG 2015)

RPK ▲ +4.6% **ASK** ▲ +5.8% **FTK** ▲ +3.9% **LF**: 83.8% ▼ -0.9 pts

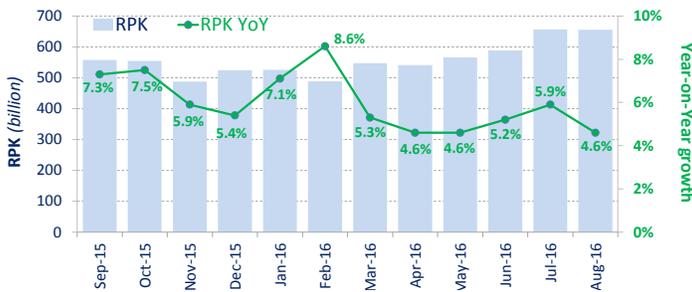
OUTLOOK* - SEP 2016
(versus SEP 2015)

ASK ▲ +5.7% * Source OAG

PASSENGER TRAFFIC

Revenue Passenger-Kilometres - RPK

World passenger traffic grew by +4.6% YoY in August 2016, -1.3 percentage point lower than the growth in the previous month. All regions saw a slowdown in growth except for Latin America/Caribbean, where the performance was helped by the increase in international traffic stimulated by the Summer Olympics in Brazil. Asia/Pacific and the Middle East remained as the fastest growing regions, albeit at a slightly slower pace. Growth in Europe and North America were subdued. Domestic market in Asia/Pacific continued to show the strongest growth with India growing at over +20.0%.



(Source: ICAO, IATA, OAG)

CAPACITY

Available Seat-Kilometres - ASK

Capacity worldwide increased by +5.8% YoY in August 2016, -0.2 percentage points lower than the growth in the previous month (+6.0%).

In response to the passenger traffic demand, the expansion of capacity is expected to be at +5.7% in September 2016.



(Source: ICAO, IATA, OAG)

International Traffic vs. Tourist Arrivals

International passenger traffic grew by +4.7% YoY in August 2016, -2.4 percentage points lower than the growth in the previous month. The Middle East continued to post double-digit growth. The slowest growth was observed in both Africa and North America at a rate of less than +2.0%.

International tourist arrivals* is expected to follow a similar monthly trend.



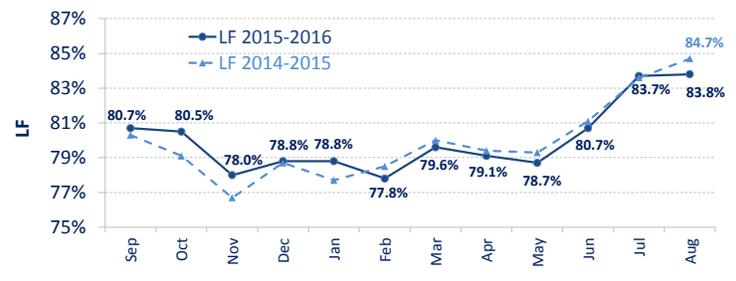
*UNWTO Definition

(Source: IATA, UNWTO)

Load Factor - LF

The passenger Load Factor reached 83.8% in August 2016, +0.1 percentage points higher than the LF recorded in the previous month.

Capacity expansion outpaced the traffic growth. As a result, LF was 0.9 percentage points lower than the same period in 2015.



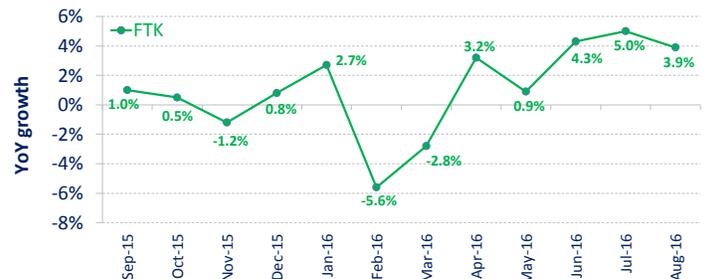
(Source: IATA)

FREIGHT TRAFFIC

Freight Tonne-Kilometres - FTK

World freight traffic grew by +3.9% YoY in August 2016, -1.1 percentage points lower than the growth in the previous month. The growth is mainly on account of low volumes of August last year. Ongoing sluggishness in global trade continues to be a negative for freight traffic. Both Europe and North America posted strong growth offsetting the weakness in some other regions. Traffic in Africa picked up as well while its YTD growth remained negative. The strong upward trend in the Middle East paused and traffic growth dipped to less than +2.0%. Latin America/Caribbean posted the weakest performance with a contraction of around -3.0% in FTK.

Freight capacity available expanded faster than freight traffic. As a result, the overall air cargo capacity utilisation continued to be poor with a low load factor of 40.8%.



(Source: IATA)

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TOP 15 AIRPORTS (Ranked by aircraft departures, passengers and volume of freight)

AUG 2016: +1.3%, +1.1%, and +3.9% YoY in terms of aircraft departures, passengers and freight for the Top 15

AUG 16

Airports (ranking by number of departures)	Departures	YoY	Airports (ranking by number of passengers)	Passengers*	YoY	Airports (ranking by tonnes of freight)	Freight**	YoY
Atlanta GA, US (ATL)	39,162	↑ 0.1%	Atlanta GA, US (ATL)	4,407,035	↓ -2.7%	Hong Kong, CN (HKG)	374,000	↑ 3.6%
Chicago IL, US (ORD)	39,135	↓ -0.8%	Beijing, CN (PEK)	4,347,408	↑ 6.8%	Memphis TN, US (MEM)	358,311	↑ 2.2%
Los Angeles CA, US (LAX)	32,350	↑ 8.4%	Dubai, AE (DXB)	3,863,553	↑ 6.1%	Shanghai, CN (PVG)	273,752	↑ 3.5%
Dallas/Fort Worth TX, US (DFW)	29,123	↓ -3.2%	Los Angeles CA, US (LAX)	3,798,927	↑ 6.9%	Anchorage AK, US (ANC)	220,342	↑ 4.8%
Beijing, CN (PEK)	26,505	↑ 2.8%	Tokyo, JP (HND)	3,763,991	↑ 4.5%	Incheon, KR (ICN)	209,490	↑ 3.6%
Denver CO, US (DEN)	25,888	↑ 7.9%	Chicago IL, US (ORD)	3,692,750	↑ 1.6%	Dubai, AE (DXB)	201,100	↓ -3.1%
Las Vegas NV, US (LAS)	23,699	↓ -7.7%	London, GB (LHR)	3,671,958	↑ 0.1%	Louisville KY, US (SDF)	200,828	↑ 12.1%
Amsterdam, NL (AMS)	23,534	↑ 8.1%	Paris, FR (CDG)	3,265,329	↓ -2.4%	Tokyo, JP (NRT)	176,815	↑ 4.3%
Charlotte NC, US (CLT)	23,501	↑ 0.5%	Amsterdam, NL (AMS)	3,203,819	↑ 7.9%	Taipei, CN (TPE)	173,751	↑ 6.7%
Paris, FR (CDG)	22,515	↑ 1.9%	Shanghai, CN (PVG)	3,107,923	↑ 6.3%	Los Angeles CA, US (LAX)	164,264	↑ 8.3%
Toronto ON, CA (YYZ)	21,418	↑ 3.1%	Hong Kong, CN (HKG)	3,074,000	↓ -2.1%	Singapore, SG (SIN)	163,100	↑ 7.6%
Istanbul, TR (IST)	21,411	↓ -0.8%	Frankfurt, DE (FRA)	2,996,493	↓ -5.0%	Frankfurt, DE (FRA)	162,636	↓ -0.2%
Shanghai, CN (PVG)	21,180	↑ 4.3%	Istanbul, TR (IST)	2,955,354	↓ -5.3%	Miami FL, US (MIA)	160,879	↑ 1.1%
London, GB (LHR)	21,062	↑ 0.5%	Dallas/Fort Worth TX, US (DFW)	2,847,704	↓ -5.2%	Beijing, CN (PEK)	157,044	↑ 1.4%
Frankfurt, DE (FRA)	20,902	↓ -2.3%	New York NY, US (JFK)	2,845,916	↓ -2.2%	Paris, FR (CDG)	155,500	↑ 5.8%

Note: Total scheduled and non-scheduled services

(Source: ACI)

In terms of **aircraft departures**, the Top 15 airports reported a growth of **+1.3%** YoY. Five airports posted negative growth, primarily in North America and Europe. **Las Vegas** and **Dallas** posted a decline of **-7.7%** and **-3.2%**, respectively. **Los Angeles** continued to record the highest growth within the Top 15 by **+8.4%**, followed by **Amsterdam** (**+8.1%**).

In terms of **passengers**, the Top 15 airports reported a growth of **+1.1%** YoY. Nearly half of the airports posted a decline. Performance of the European airports have been a mix. **Amsterdam** recorded the highest growth of **+7.9%** while the most significant contraction was observed in **Istanbul** (**-5.3%**). Major airports in Asia/Pacific and the Middle East continue to grow relatively high.

In terms of **freight**, the Top 15 airports reported a growth of **+3.9%** YoY. All the Top 15 major freight hubs posted a growth, except for **Dubai** and **Frankfurt** with **-3.1%** and **-0.2%** decline, respectively. Airports in North America demonstrated a strong overall growth. **Louisville** recorded the most significant increase of **+12.1%**, followed by **Los Angeles** (**+8.3%**).

TOP 15 AIRLINE GROUPS (Ranked by RPK)

AUG 2016: +2.7% YoY in terms of RPK for the Top 15

In terms of RPK, the Top 15 airline groups accounted for **47.7%** of world total RPK in August 2016, and grew by **+2.7%** YoY. This growth was **-1.9** percentage points lower than the world average on scheduled services. Nine out of the Top 15 airline groups posted a YoY increase.

American improved 1 position and ranked **1st**, albeit with a decrease of **-2.8%** YoY. The outrage **Delta** suffered resulted in a decline of **-2.8%** in RPK. **United** remained at **3rd** with a slight increase. **Southwest** grew modestly by **+3.6%** while ranked 2 positions down to **10th**. **Air Canada** continued to post double-digit growth and ranked at **13th**.

Two out of the four European airline groups posted declines. **Lufthansa** declined by **-1.4%** followed by **AF-KLM** (**-0.2%**). **IAG** grew by **+7.9%** and ranked **5th**. **Turkish Airlines** remained at **12th** with a growth of **+8.4%**.

Emirates recorded the 3rd fastest growth within the Top15 while ranked 1 position down to **6th**.

For the airline groups in Asia/Pacific, three major Chinese carriers lead the growth. Both **China Southern** and **Air China** improved 1 position and grew by **+7.1%** and **+7.4%**, respectively. **China Eastern** recorded the second highest growth of **+10.5%**.

AUG 16

RPK (billion)	YoY	% Share of World Total	Cumulative % Share
American	↓ -2.8%	5.0%	5.0%
Delta	↓ -2.8%	5.0%	10.0%
United	↑ 0.6%	4.9%	14.9%
AF-KLM	↓ -0.2%	3.9%	18.8%
IAG ²	↑ 7.9%	3.7%	22.5%
Emirates ³	↑ 9.8%	3.7%	26.2%
Lufthansa Group	↓ -1.4%	3.5%	29.7%
China Southern	↑ 7.1%	3.0%	32.7%
Air China	↑ 7.4%	2.7%	35.4%
Southwest	↑ 3.6%	2.6%	38.0%
China Eastern	↑ 10.5%	2.5%	40.4%
Turkish Airlines	↑ 8.4%	2.0%	42.4%
Air Canada ⁴	↑ 10.7%	2.0%	44.4%
Cathay Pacific Group ⁵	↓ -2.8%	1.6%	46.1%
Singapore Airlines Group	↓ -2.9%	1.6%	47.7%
Top 15 Total RPKs	↑ 2.7%	47.7%	
World Total RPKs	↑ 4.6%	100.0%	

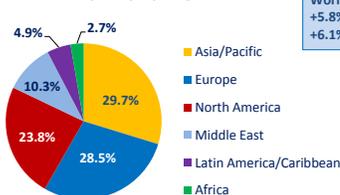
(Source: ICAO, airlines' websites)

Note: Total scheduled and non-scheduled services

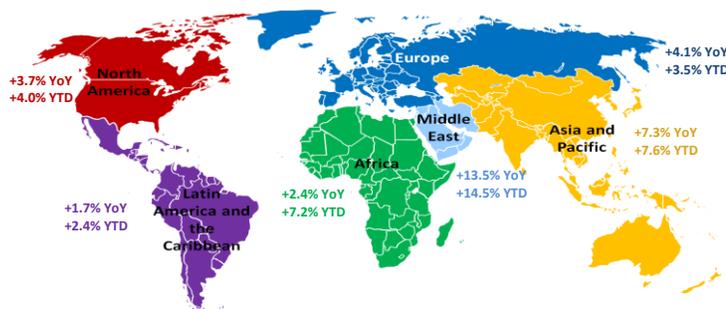
CAPACITY BY REGION (ICAO Statistical Regions)

AUG 2016: +5.8% YoY in terms of World ASK

% Share of Capacity by Region



World:
+5.8% YoY
+6.1% YTD



All regions, posted an expansion in capacity in August 2016 with a **+5.8% YoY** increase in capacity worldwide, **-0.3** percentage points lower to the YTD 2016 growth.

Asia/Pacific accounted for the biggest share of the world capacity offered. **The Middle East** continued to post the fastest capacity expansion among all regions, and increased by **+13.5%**.

(Source: ICAO, IATA, OAG)
Note: Total scheduled services

* Embarked Passengers ** Loaded and Unloaded Freight in Tonnes 1. IAG: British Airways, Iberia, and Vueling 2. ICAO Estimates 3. Lufthansa Group: Lufthansa Airlines, Germanwings, SWISS, Austrian Airlines, Brussels Airlines, Sun Express, and Lufthansa Cargo 4. ICAO Estimates 5. Cathay Pacific Group: Cathay Pacific and Dragonair