

**U.S. Department of Transportation**  
Bureau of Transportation Statistics ~ Office of Airline Information  
**File and Record Description**

**Data Bank 28 International Segment Data**

This product includes U.S. and Foreign Air Carriers  
Filename describes the kind and period of the data w/ release date:  
**FD.DB28IS.WAC.201701.201712.REL01.04JUN2018.zip**  
**FF.DB28IS.WAC.201701.201712.REL01.04JUN2018.zip**

**FD** = Foreign/Domestic Airports – where airports are a U.S. and a Foreign Country (**6 month restriction**)

**FF** = Foreign/Foreign Airports – where airports are both in Foreign Countries (**3 year restriction**)

**DB28** = Name of the Product

**IS** = International Segment data reported by both U.S. and foreign carriers

**PRODUCT:** **DB28IS:** International Segment T100 Traffic Data between the U.S. and Foreign Airports

To see data between U.S. (Domestic) airports, refer to DB28DM and DB28DS products.

The logic for this data needs to be checked and changed to give the correct AIRCRAFT GROUP. See notes below.

**FILE DESCRIPTION:** File contains ASCII, pipe [ | ] separated data, for 12 months ending, reported by US & foreign air carriers.

FD files include non-stop segments that are between airports where ONE airport is located outside the boundaries of the United States or its territories. Because there are restrictions on the release of foreign statistics, this data will always be 6 months old. FF files have data between TWO foreign airports and are restricted for 3 years.

After OAI normalized the Carrier Decode information and developed a front end to maintain the data integrity, carrier entities were no longer manually created by the application. Prior to this, for foreign carriers, the middle 3 character of the entity code were the carrier's country World Area Code. This WAC indicator was added to the end of each record to allow users of the data to continue to identify the country of a Foreign Carrier.

## RECORD FORMAT - T-100 International Segment Data Records:

	Carrier Reported or Support	FIELD NAME	FIELD LENGTH	DATA TYPE	DESCRIPTION
1	Carrier Reported	Date of Data: Year	4	NUMERIC	Century & Year (1999)
2	Carrier Reported	Date of Data: Month	2	NUMERIC	Month of the year (01-12)
3	Carrier Reported	Origin Airport: Alpha Code	3	CHARACTER	Airport Code, exists in the Airports support file
4	Support: AIRPORTS	Origin Airport: Unique Numeric Code	5	NUMERIC	Airports Support table
5	Support: AIRPORTS	Origin Airport: World Area Code	3	NUMERIC	WAC Support table data that is linked with Airports
6	Support: AIRPORTS	Origin Airport: City Name	35	CHARACTER	Airports Support table
7	Carrier Reported	Destination Airport: Alpha Code	3	CHARACTER	Airport Code, exists in the Airports support file
8	Support: AIRPORTS	Destination Airport: Numeric Code	5	NUMERIC	Airports Support table
9	Support: AIRPORTS	Destination Airport: World Area Code	3	NUMERIC	WAC Support table data that is linked with Airports
10	Support: AIRPORTS	Destination Airport: City Name	35	CHARACTER	Airports Support table
11	Support: CarDecode	Carrier: Alpha Code	3	CHARACTER	This Code Matches up with what's in CarDecode for the carrier
12	Carrier Reported	Carrier: Entity Code	5	CHARACTER	Carriers report their T100 using their unique CarDecode Entity Code(s) A carrier can have more than one of these.
13	Support: CarDecode	Group Code	1	NUMERIC	<p><b>See Note G below</b></p> <p><b>0 = International Carriers</b> Please note the true Group Code in CarDecode for Foreign Carriers: 7</p> <p><b>1 = Regional Carriers</b> Included in this product as a group 1 regional carrier are: <b>Large Regional carriers</b> (actual group code: 1), <b>Medium Regional carriers</b> (actual group code: 4), <b>Commuters</b> (actual group code: 6), <b>Small Certificated carriers</b> (actual group code: 5)</p> <p><b>2 = National Carriers</b></p> <p><b>3 = Major Carriers</b></p> <p><b>8 = Domestic Only All Cargo Carriers</b></p>

14	In Sybase	Distance	5	NUMERIC	The great circle distance in statute miles between the Origin and Destination airports.
15	Carrier Reported	Service Class	1	CHARACTER	<b>See Note I below.</b> F Scheduled Passenger/Cargo Service G Scheduled All Cargo Service L Non-Scheduled Civilian Passenger Service P Non-Scheduled Civilian All Cargo Service
16	Support File: Aircraft Type	Aircraft Type: Group	1	NUMERIC	<b>See Note J below</b>
17	Carrier Reported	Aircraft Type: Type ID	2	NUMERIC	<b>See Note J below</b>
18	Carrier Reported	Aircraft Type: Configuration	1	NUMERIC	<b>See Note J below</b>  1 = Passenger (with cargo in the belly) 2 = ALL Cargo 3 = Combi - Passenger/Cargo (where part of the upper deck is configured to hold a cargo pod) 4 = Amphibious/Float - Passenger/Cargo
19	Carrier Reported	Departures Performed	5	NUMERIC	
20	Carrier Reported	Departures Scheduled	5	NUMERIC	
21	Carrier Reported	Available Capacity: Payload Pounds	10	NUMERIC	
22	Carrier Reported	Available Seats	7	NUMERIC	Previously named <b>First Cabin</b> - Since 2002, Carriers only report total available seats
23	--	<i>No Longer Reported: Middle Cabin</i>			Since 2002, this field is Zero
24	--	<i>No Longer Reported: Coach Cabin</i>			Since 2002, this field is Zero
25	Carrier Reported	Passengers Transported	7	NUMERIC	Previously named <b>First Cabin</b> - Since 2002, Carriers only report total passengers transported
26	--	<i>No Longer Reported: Middle Cabin</i>			Since 2002, this field is Zero
27	--	<i>No Longer Reported: Coach Cabin</i>			Since 2002, this field is Zero
28	Carrier Reported	Freight Transported	10	NUMERIC	

29	Carrier Reported	Mail Transported	10	NUMERIC	
30	Carrier Reported	Ramp – Ramp in minutes	10	NUMERIC	Elapsed Time in Minutes
31	Carrier Reported	Airborne – in minutes	10	NUMERIC	Elapsed Time in Minutes
32	Support: CarDecode	Carrier's World Area Code	3	NUMERIC	See Note P below.

**NOTES - DB28IS - International Segment Data:**

- A. **Airport Alpha Code:** The three letter code identifying the airport is reported by the air carriers. This code is used in all of the major airline reservation systems and is recognized by the International Air Transport Association (IATA). Refer to OAI's [Airports Support data](#) for more information about this data.
- B. **Airport Numeric Code:** A five-digit code which corresponds to the alphabetic name spelling of the principal city served by the airport. Airports that share service at a particular city will therefore have identical numeric codes. The number is used primarily for sorting records by city name and for grouping multiple airports within a city. Refer to OAI's [Airports Support data](#) for more information about this data.
- C. **World Area Code:** A three-digit code which specifies in what area of the world a city is located. The first digit represents a major geographic area, such a "0" for the United States, "4" for Europe, etc. The last two digits represent a specific subdivision of the major geographic area, such as a state or a country. Refer to OAI's [World Area Codes Support data](#) for more information about this data or contact the Office of Airline Information at the address listed on the cover for a complete list of these area codes.
- D. **City Name:** The name of the principal city served by this airport. Refer to OAI's [Airports Support data](#) for more information about this data

- E. **Carrier Alpha Code:** The 2 character IATA code or 3-character DOT assigned code used to represent the carrier reporting these data to the DOT. Refer to OAI's [CarDecode Support data](#) for more information about this data
- F. **Carrier Entity Code:** These five-character codes are used by the air carriers to report their Traffic data. The codes are assigned by DOT, to each air carrier and they are used primarily for DOT reporting purposes. For large certificated carriers, the entities are used to separate reporting of the Domestic, Atlantic, Latin America, and Pacific operations of each air carrier. For Non-US air carriers, the middle three digits of this code were once used to identify the country of origin of the air carrier. Since automation of OAI's carrier information data these codes are system generated and no longer have the WAC for foreign carriers. The carrier WAC is added to the end of each record in this product. Refer to OAI's [CarDecode Support data](#) for more information about this data or contact the Office of Airline Information at the address listed on the cover for a complete list of carrier entity codes.
- G. **Carrier Group Code:** This numeric code drives the reporting requirements for air carriers. It varies for U.S. carriers who are large certificated carriers and is determined by their revenues the previous year – unless the carrier is a domestic ONLY all-cargo. Domestic ONLY All-Cargo carriers are assigned the Carrier Group Code 8.

For whatever reason, historically, the DB28's have been generated using an alternate Carrier Group Code for foreign and regional carriers. The list of group codes included in this product are listed below, along with those that are converted from the true carrier group codes:

- **International Carriers – 0** Please note the true Group Code in [CarDecode](#) for **Foreign Carriers: 7**
- **Regional Carriers – 1** Included in this product as a group 1 regional carrier are: **Large Regional** carriers (actual group code: 1), **Medium Regional** carriers (actual group code: 4), **Commuters** (actual group code: 6), **Small Certificated** carriers (actual group code: 5)
- **National Carriers – 2**
- **Major Carriers – 3**
- **Domestic Only All Cargo Carriers – 8**

*Note: NOT included in this product file are carriers who report T100 data as a **group 9** which identifies them as an **Essential Air Taxi**. These carriers only report T100 data for the period of their contract with DOT to provide service between two communities*

Refer to OAI's [CarDecode Support data](#) for more information about this data

H. **Distance:** This number is NOT reported by the carrier but is calculated by an OAI application of the great circle distance in statute miles between the Origin and Destination airports.

I. **Service Class:** The Service Class Code reported by the air carriers refers to the class of service used to carry passengers, freight and mail. *This data product does NOT include Military or Humanitarian Service Classes*

- F Scheduled Passenger/Cargo Service
- G Scheduled All Cargo Service
- L Non-Scheduled Civilian Passenger Service
- P Non-Scheduled Civilian All Cargo Service

**J. Aircraft Type and Configuration:**

The aircraft type reported by the air carriers identifies the type of aircraft operated for the non-stop segments reported. Refer to OAI's [Aircraft Support data](#) for more information about aircraft types.

1. Aircraft **Group** Code. This code indicates the general category of aircraft type reported. This Code MUST be taken from the AIRCRAFT TYPES FILE, AIRCRAFT GROUP.
2. **Aircraft Type ID** Code. This code indicates the specific make and model of the aircraft. This is the 3 character aircraft type ID code reported by the Carriers.

### 3. Cabin **Configuration** Code

- 1 = Passenger (with cargo in the belly)
- 2 = ALL Cargo
- 3 = Combi - Passenger/Cargo (where part of the upper deck is configured to hold a cargo pod)
- 4 = Amphibious/Float - Passenger/Cargo

### K. **Departures (Revenue Departures) reported by the air carriers:**

1. The number of revenue aircraft **departures performed** in revenue scheduled service, including extra sections.
2. The number of aircraft **departures scheduled**, whether or not actually performed. This field is not applicable for foreign air carriers, and contains a value of zero.

### L. **Available Capacity reported by the air carriers:**

1. **Available Capacity-Payload** reflects the total available capacity for passenger, freight, and mail applicable to the aircraft with which this flight is performed.
2. **Available Seats** reflect the actual number of seats for sale, excluding those blocked for safety and operational reasons.

M. **Passengers are NO LONGER reported by Cabin Identification:** All classes of Passenger data are consolidated into one reported field. The Middle and Coach Cabin fields defined on this product are kept for historical purposes and will contain a value of zero.

N. **Mail:** Foreign carriers do not report transported mail. This field will contain a value of zero for those carriers.

O. **Elapsed Time:** This data is reported by the air carriers to indicate the total elapsed time reported in minutes:

1. **Ramp-to-Ramp** time is the total elapsed time computed from the moment the aircraft moves under its own power until it comes to rest at the next point of landing.
2. **Airborne time** is the elapsed time computed from the moment the aircraft leaves the ground until it touches down at the next point of landing.

**P. For CB28: Carrier's World Area Code – OAI adds this to identify the carrier's country:**

This three-digit code specifies the area of the world a CARRIER is headquartered. The first digit represents a major geographic area. "010" is the WAC for the United States – which is actually 010 but looks like 10 in the data. A Carrier WAC beginning with "4" is a carrier based out of Europe, etc. The last two digits represent a subdivision of the area, such as a state or a country. Contact the Office of Airline Information at the address listed on the cover for a complete list of these area codes.