

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

Data Bank 28 Segment Data

This product includes U.S. and Foreign Air Carriers

PRODUCT: Domestic and International Segment T100 Traffic Data reported by U.S. and Foreign Carriers

FILE DESCRIPTION:

This product contains ASCII, pipe [|] separated data, for a period of 12 months ending, as reported by US and foreign air carriers.

There are THREE (3) **PUBLIC** versions of this data released:

1. Non-stop segments between two U.S. airports

The proposed Filename describes the period of the data and release date:

DB28SEG.DD.WAC.2017xx.2017xx.REL##.ddMMM2018.zip

2. Non-stop segments where ONE airport is located outside the boundaries of the United States or its territories – these records are public because they are now 6 months from the reporting period.

The proposed Filename describes the period of the data and release date:

DB28SEG.FD.WAC.2017xx.2017xx.REL##.ddMMM2018.zip

3. Non-stop segment where BOTH airports are located outside the boundaries of the United States or its territories – these records are public because they are now 3 years from the reporting period.

The proposed Filename describes the period of the data and release date:

DB28SEG.FF.WAC.201401.201412.REL##.ddMMM2018.zip

There is ONE (1) **RESTRICTED** version of this data that has the most recent 12 months of data for:

- a) Non-stop segments between two U.S. airports
- b) Non-stop segments where ONE airport is located outside the boundaries of the United States or its territories – these records are restricted from public release for 6 months from reporting period.
- c) Non-stop segment where BOTH airports are located outside the boundaries of the United States or its territories – these records are restricted from public release for 3 years from reporting period.

The proposed Filename: **DB28SEG.RESTRICTED.WAC.2017xx.2017xx.REL##.ddMMM2018.zip**

Please note: A World Area Code (Carrier WAC) indicator was added to the end of each record to allow users of the data to identify the country of a Foreign Carrier. 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 OAI. Prior to this, foreign carrier entities contained as the middle 3 characters of their entity code, the carrier’s country World Area Code.

RECORD FORMAT - T-100 International Segment Data Records:

	New Field Number	Carrier Reported Data or data from Support Table	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	Official OAI Group Code	1	NUMERIC	1 = Large Regional Carrier - \$20 million to \$100 million in revenue 2 = National Carrier - \$100 million to \$1 billion in revenue 3 = Major Carrier - Over \$1 billion in revenue 4 = Medium Regional Carrier - Under \$20 million in revenue 5 = Small Certificated Carrier 6 = Commuter Carrier 7 = Foreign Carrier 8 = All Cargo Carrier - Domestic Only 9 = Essential Air Service - Air Taxi See Note G below.
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	
16		Carrier Reported	Aircraft Type: Group	1	NUMERIC	This code indicates the general category of aircraft type reported. See Note J below
17		Carrier Reported	Aircraft Type: Type	3	NUMERIC	This code indicates the specific make and model of the aircraft. The Field Length was previously 2 in the Aircraft Types Support table. It was changed to be 3. See Note J below
18		Carrier Reported	Aircraft Type: Configuration	1	NUMERIC	Cabin Configuration Codes (See Note J below): <ul style="list-style-type: none"> • 1 = Passenger • 2 = Cargo • 3 = Combination Passenger/Cargo on maindeck • 4 = Float/Amphibious 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 First Cabin - Since 2002, Carriers only report total available seats
23		--	<i>No Longer Reported: Middle Cabin</i>			<i>Since 2002, this field is Zero</i>
24		--	<i>No Longer Reported: Coach Cabin</i>			<i>Since 2002, this field is Zero</i>
25	23	Carrier Reported	Passengers Transported	7	NUMERIC	Previously named First Cabin - Since 2002, Carriers only report total passengers transported
26		--	<i>No Longer Reported: Middle Cabin</i>			<i>Since 2002, this field is Zero</i>
27		--	<i>No Longer Reported: Coach Cabin</i>			<i>Since 2002, this field is Zero</i>
28	24	Carrier Reported	Freight Transported	10	NUMERIC	
29	25	Carrier Reported	Mail Transported	10	NUMERIC	
30	26	Carrier Reported	Ramp – Ramp in minutes	10	NUMERIC	Elapsed Time in Minutes
31	27	Carrier Reported	Airborne – in minutes	10	NUMERIC	Elapsed Time in Minutes
32	28	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 as 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.

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

Here are the **OFFICIAL OAI Group Codes** →

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:

- **0 = International Carriers**
Please note the true Group Code in **CarDecode** for **Foreign Carriers: 7**
- **1 = Regional Carriers**
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**)
Note: NOT included in the DB28 files were carriers who reported their 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.
- **2 = National Carriers**
- **3 = Major Carriers**
- **8 = Domestic Only All Cargo Carriers**

Carrier Code	Description
1	Large Regional Carrier - \$20 million to \$100 million in revenue
2	National Carrier - \$100 million to \$1 billion in revenue
3	Major Carrier - Over \$1 billion in revenue
4	Medium Regional Carrier - Under \$20 million in revenue
5	Small Certificated Carrier
6	Commuter Carrier
7	Foreign Carrier
8	All Cargo Carrier - Domestic Only
9	Essential Air Service - Air Taxi

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:**

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.
2. Aircraft Type Code. This code indicates the specific make and model of the aircraft.
3. Cabin Configuration Code. Passenger = "1" , Cargo = "2" , Combination Passenger/Cargo = "3" , Amphibious Passenger/Cargo = "4"

Include link to transtats location of aircraft types data.

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. 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.