DataSF Data Dictionary for Air Traffic Passenger Statistics
Elements of the data dictionary as shown below describe San Francisco International Airport (SFO) passenger statistical data available for download through DataSF. It is important that all users read and understand this document prior to downloading data. **Airport data is seasonal in nature, therefore any comparative analyses should be done on a period-over-period basis (i.e. January 2010 vs. January 2009) as opposed to period-to-period (i.e. January 2010 vs. February 2010)**. It is also important to note that fact and attribute field relationships are not always 1-to-1. For example, Passenger Counts belonging to United Airlines will appear in multiple attribute fields and are additive, which provides flexibility for the user to derive categorical Passenger Counts as desired. The raw data file is in comma separated values (CSV) format, while a file comprising pre-defined summaries of the data is in Microsoft Excel format. Data begins in July 2005, and will be updated on a quarterly basis. A summary of monthly comparative air-traffic statistics are also available on SFO's internet site at http://www.flysfo.com/web/page/about/news/pressres/stats.html. Please contact Mike Nakornkhet (mike.nakornkhet@flysfo.com) or Denise Martinez (denise.martinez@flysfo.com) for any questions regarding this data. Date created: June 2, 2010 Date revised: December 20, 2010

Field Name	Definition	Data Type	Possible Field Values (if Fixed)	Data Business Rules / Comments
Attribute Fields				
Activity Period	The year and month at which passenger activity took place.	Numeric	200507 - Current	The Activity Period is always displayed as six digits, with the four-digit year preceding a two-digit month. For example, 201001 is January 2010, 201002 is February 2010 and so on.
Operating Airline	Airline name for the operator of aircraft with passenger activity.	Text		See Published Airline.
Operating Airline IATA Code	The International Air Transport Association (IATA) two-letter designation for the Operating Airline.	Text		
Published Airline	Airline name that issues the ticket and books revenue for passenger activity.	Text		A Published Airline may be the Operating Airline or it may have one or more Operating Airlines associated with it. For example, United Airlines issues tickets and books revenue for Operating Airlines United Airlines and its regional affiliate Skywest Airlines. Therefore, Operating Airlines are a subset of Published Airlines.

Field Name	Definition	Data Type	Possible Field Values (if Fixed)	Data Business Rules / Comments
Published Airline IATA Code	The International Air Transport Association (IATA) two-letter designation for the Published Airline.	Text		
GEO Summary	Designates whether the passenger activity in relation to SFO arrived from or departed to a location within the United States ("domestic"), or outside the United States ("international") without stops.	Text	Domestic, International	
GEO Region	Provides a more detailed breakdown of the GEO Summary field to designate the region in the world where activity in relation to SFO arrived from or departed to without stops.	Text	US, Africa, Asia, Australia/Oceania, Canada, Caribbean, Central America, Europe, Mexico, Middle East, South America	
Activity Type Code	A description of the physical action a passenger took in relation to a flight, which includes boarding a flight ("enplanements"), getting off a flight ("deplanements") and transiting to another location ("in-transit").	Text	Enplaned, Deplaned, Thru/Transit	The count of enplaned passengers is widely used in the aviation industry as a proxy for period-over-period comparative analyses of passenger trends. A passenger is categorized as Thru/Transit only if he or she connects through the airport to get to another location *on the same aircraft and flight number*. Otherwise the connecting passenger would be counted as one deplanement and one enplanement. It is SFO's convention to count Thru/Transit passengers twice in total airport passenger counts, as if they had deplaned and then enplaned. Therefore, total airport passengers are calculated as Enplaned + Deplaned + Thru/Transit*2.

Field Name	Definition	Data Type	Possible Field Values (if Fixed)	Data Business Rules / Comments
Price Category Code	A categorization of whether a Published Airline is a low-cost carrier or not a low-cost carrier.	Text	Low Fare, Other	Since there is no objective criterion that segregates low-cost carriers from non low-cost carriers, an airline is tagged as Low Fare based on general industry acceptance.
Terminal	The airport terminal designations at SFO where passenger activity took place.	Text	Terminal 1, Terminal 2, Terminal 3, International Terminal	See Boarding Area.
Boarding Area	The airport boarding area designations at SFO where passenger activity took place	Text	A, B, C, D, E, F, G	Boarding Areas are a subset of Terminals. Terminal 1 contains Boarding Areas B and C. Terminal 2 contains Boarding Area D. Terminal 3 contains Boarding Areas E and F. International Terminal contains Boarding Areas A and G.
Fact Field				
Passenger Count	The number of monthly passengers associated with the above attribute fields.	Numeric		Passenger counts are additive for all attribute fields.