

Passenger Data

The model output is presented in a database form.

These file each have the suffix 'Pax'.

Fields

Year	Year (2030, 2040 or 2050)
iSPASM	Model code for origin airport (or I to I hub) – see <i>DfT17_Lookups.xlsx</i>
iAPName	Name of origin airport
jSPASM	Model code for destination airport (or I to I hub)
jAPName	Name for destination airport
SCL	Scheduled (Sch), Charter (Ch), Low Cost (LCC) or Freighter (F)
Route	Direct or transfer – see note below
Via/from	Hub used (or ultimate origin for I to I transfer)
Purp	Journey purpose – see note below
Pax	Passengers

Route

Domil_1	Domestic interliner at start or final airport
Domil_2	Domestic interliner – domestic arrival/departure at hub
Domil_3	Domestic interliner – international arrival/departure at hub
Int-il	International interliner (e.g. UK – foreign hub – ultimate dest)
DomEE	Domestic end-to-end
Direct	Not a transfer
Others	Flights to an unmodelled zone (e.g. small UK airport, oil rigs etc.)
Freighter	
II	International – to – international interliner

Journey Purpose

UKBus	UK resident – business
UKLei	UK resident – leisure
FoBus	Foreign resident – business
FoLei	Foreign resident – leisure
DomBus	Domestic (end-to-end) business
DomLei	Domestic (end-to-end) leisure
Charter	Charter (assume all UK leisure)
LCCUKBus	Low cost carrier UK resident – business
LCCUKLei	Low cost carrier UK resident – leisure
LCCFoBus	Low cost carrier Foreign resident – business
LCCFoLei	Low cost carrier Foreign resident – leisure
Others	Flights to an unmodelled zone (e.g. small UK airport, oil rigs etc.)
Freighter	
II	International – to – international interliner

ATMs by destination

The model output is presented in the processed database form used to feed the CO₂ modelling. As such the data does not include a small number of aircraft types such as 'others' which are not processed by the fleet/CO₂ models. However this form of output allows the data to be split scheduled/charter/LCC and by destinations so is compatible with the passenger data.

These files each have the suffix 'ATMs'.

Fields

Year	Year (2030, 2040 or 2050)	
iSPASM	Model code for origin airport see <i>DfT17_Lookups.xlsx</i>	
iAPName	Name of origin airport	
jSPASM	Model code for destination airport see <i>DfT17_Lookups.xlsx</i>	
jAPName	Name of destination airport	
SCL	S (Scheduled), C (Charter), L (LCC), O (Other) or F (Freighter)	
ATMs	Number of ATMs	

Destination Tables

The number of destinations modelled at each airport is provided. Therefore this file gives underlying model output data with destination served at airports.

This relevant file has the title 'DfT17_Destinations.xlsx'.

To determine whether routes meet a certain frequency, thresholds are applied to the number of modelled ATMs associated for each route in each year. A threshold of 729 implies that there must be at least 365 round trips (730 total ATMs), equating to an average of one per day over the course of the year. The number of thresholds for each set of tables is recorded in the spreadsheet.