

DOT ANALYSER USER GUIDE

July 2018



DOT ANALYSER – USER GUIDE

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1 INTRODUCTION

1.1 About the Tool

The US Department of Transport (DOT) gathers valuable data on the US aviation market which is made available as three reports known as T100, Form 41 and DB1B O&D Traffic. To make it easier to extract market insights, and to manipulate data, OAG has created DOT Analyser which takes the hassle out of working with the data, so you can extract the business intelligence you need faster and more easily.

As the leading provider of business intelligence data for the aviation industry, OAG's DOT Analyser is the best, most flexible web-based tool available to navigate these key US DOT aviation datasets. DOT Analyser combines data from the T100, Form 41 and DB1B O&D Traffic reports so they are accessed via a single dashboard, and have a similar look and feel, enabling better and faster decision making. Whether you need to analyse airline trends in depth or need specific data about the financial performance of a carrier, DOT Analyser allows you to do it all with ease.

		Classic Version Data Overview
vailable Reports		
raffic Reports (T100)	Origin & Destination Reports (DB1B)	Financial Reports (Form 41)
Segment Traffic Reports Opnamic table to create a fully customised report for T100 Segment Data for both Domestic and international flights to analyse passenger, capacity, freight and mail statustics	O & D Traffic Reports (Detailed) Create a fully customised report for all DB18 Data to analyse complete passenger litineraries including connection points and fares paid by passengers	Financial Reports Analyse Airline financial reports including both revenue and cost breakdowns
Market Traffic Reports Oynamic table to create a fully customised report for T100 Market Data for both Domestic and International flights to analyse local passengers, freight and mail	O & D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination including passenger numbers and faree paid	Traffic Summary Reports (T1, T2, T3) View a Summary of T100 Traffic Data and see how each airline performs using standard industry metrics
lew Potential Reports		
O & D Visualised	Top X Report	Mix Report
Click here to find out more	Click here to find out more	Click here to find out more
Airline Cinancial History Deport	Airline Financial Comparison Report	Airline/Airport Overview Report
Aintine Financial History Report		

OAG DOT Analyser sits within the OAG Analyser Suite of products. Each product has been designed to have a high degree of commonality so that screens are visually comparable, and users of one will find it easy to use the other products and create outputs in similar and comparable formats where needed.



1.2 Key Features

- DOT Analyser allows you to access the latest data from each source and look back at historical trends as far back as 1996.
- Fast and flexible with the highest level of interactivity all the reports are available as power tables, meaning data can be extracted in the format required by the user.
- DOT Analyser allows you to create, save and schedule regular reports so that they are produced automatically, and sent to your email address for when you need them.
- Easy and intuitive to use OAG offers a purpose designed tool that allows you to extract just the data you need and takes you straight to the analysis without the hard work of processing the data.
- Sits within OAG Analyser platform and so can be provided as an additional module in a dashboard, making the OAG Analyser suite of products your first and only port of call for air transport analysis.

1.3 The Reports

There are six sets of reports available in DOT Analyser which provide traffic and financial data for airlines flying to and from US airports. The data can be used to analyse both operational and financial trends as a measure of an airline or airport's performance.

All airlines that operate flights within, to or from the USA are required to report their traffic and financial performance to the Department of Transport (DOT). Including;

- Major & National Airlines
- Regional Airlines (required as of October 2002)
- Foreign Flag Airlines (required as of July 1990)
- Cargo Airlines
- Charter Airlines

The DOT obtains the performance information via three data collections referred to as T100, DB1B and Form 41. OAG's DOT Analyser has created six power tables, two for each set of data, which make accessing and understanding the data straightforward.

1.3.1 Traffic Reports (T100)

- Recent and historical on-board passenger and cargo traffic data to, from and within the U.S.
- Includes flown passenger data and load factors for single plane flights.
- Contains traffic schedules by carrier, class and aircraft type passengers and cargo carried, flight frequencies, seat and cargo capacity, origin and destination.
- Covers all US carrier data for US domestic segment and US domestic market (all carriers)
- Covers all carrier data for US international segment and US international market (all carriers)

Data reported monthly domestic flights reported with 3-month delay, international with 6-month delay.





T100 Segment data is total number of departing passengers on-board flights (whether those passengers are non-stop, stopping or connecting). T100 does not show a connecting passenger's ultimate origin or destination. T100 Segment data is flown data.



This diagram illustrates the data included in T100 Segment. Looking at an example, JFK to ATL, you can see T100 Segment data includes all passengers flying on this route including those who are stopping and connecting in JFK and ATL.

T100 Market data is total number of departing passengers on-board a flight minus those passengers on stopping flights who are not on the first segment of that flight. (whether those passengers are non-stop, first segment of a stopping flight or connecting). Again T100 Market data is flown data.



This diagram illustrates the data included in T100 Market. Looking again at the example JFK to ATL you can see compared to Segment diagram Flight #1 has disappeared in Market data. T100 Market is local data, it is where a flight number starts hence it does not include stopping flights that have originated at another airport. T100 data is flight number driven.





1.3.2 Origin & Destination Reports (DB1B)

The DB1B data collection refers to data collected after 1998 which the data collected prior to 1998 is called DB1A.

- DB1B is a **10% Sample** of an airline's tickets, then 'adjusted' to estimate 100% of the market by multiplying the data by a factor of 10.
- Based on airline tickets, the data provides an estimate for total passengers and cargo transported by itinerary. The source data therefore includes the origin, destination, connecting points and US gateway for each itinerary, as well as the distance travelled.
- Analysis can be undertaken by operating, marketing and ticketing carrier.
- The data is a rich source of pricing information and includes average fares by itinerary and fare codes by segment. This means that data for Revenue Passenger Miles and Revenue Ton Miles is available.
- DB1B does **not include** aircraft data
- Data is reported **Quarterly.**
- Non-US carriers do not have to report this data to the DOT and therefore access is restricted for non-US carriers to prevent them seeing the International data for their US airline competitors.

There are two sets of reports which use DB1B data. These are the O&D Traffic Reports (Detailed) and O&D Traffic Reports (Summary).

1.3.3 Financial Reports (Form 41)

The Form 41 data collection provides airline financial (Balance Sheet, Profit & Loss) data for US carriers. Reporting requirements are split into a number of separate 'schedules' or forms which are submitted:

Large Airlines with revenues >\$20m

- B1 Balance Sheet
- P1.2 Profit and Loss
- P5.1 Aircraft Operating Expenses (Carriers with Op. Rev <\$100M)
- P5.2 Aircraft Operating Expenses (Carriers with Op. Rev >\$100M)
- P6 Operating Expenses (Carriers with Op. Rev. > \$20m)
- P7 Operating Expenses (Carriers with Op. Rev > \$1Bn)
- P10 Detailed Monthly Employee Stats
- P1(a) Annual Employee Totals
- P12(a) Fuel

Small/Medium Airlines with revenues <\$20m

- B1.1 Balance sheet
- P1.1 Profit and Loss
- P5.1 Aircraft Operating Expenses (Carriers with Op. Rev <\$20M)
- P1(a) Annual Employee Totals





DOT Analyser **Financial Reports** allow the user to quickly and easily extract data about financial performance for airlines.

- Full airline financial history financial information includes balance sheets, income statements, employee counts and traffic schedules.
- Revenues from Tickets and Ancillaries.
- Costs such as Staff, Aircraft, Fuel, Marketing.

In addition, the Financial Reports (Form 41) include **Traffic Summary Reports** which are derived from T100 data but aggregated to the point where sensitivities about data disclosure are removed. They provide a high-level view of airline (T1), aircraft (T2) and airport (T3) performance.

• Reported monthly - Domestic flights reported 3 months delayed and International flights reported 6 months delayed



2 GETTING STARTED

This guide provides all the information you need to start using OAG DOT Analyser. It has been designed to walk you through all of the steps involved with getting the data you need from DOT Analyser and can be used on its own, or in conjunction with the **User Guide Videos** which are accessible from the toolbar within DOT Analyser. You can also find a **Glossary of Terms** and **Frequently Asked Questions** there.

If you have any login or account issues please contact **<u>ContactUs@oag.com</u>**. If you would like to give feedback on your experience of using DOT Analyser or if you have any problems using this tool please contact your account manager or our support team <u>**Analyser-Support@oag.com**</u> and they will be able to help you or pass you on to the relevant department to help. When you log into OAG Analyser you will see a screen like this which is the dashboard for the OAG Analyser suite of products.

DAG	analyse	r		Schedules Analyzer	er Logout
/elcome sward!					Notification
Schedules Analyser	Schedules Analyser Ure DAG schedules data to identify cor resource planning. Version 2.0.1 Exerciptines 1247933 Purchased regions indentify Purchased regions indentify	nmercial opportunities, monitor competitor activity, undentand underlying trends and for Database Let indexide update: 33. doi: 30.11 Summer of active aspens. (ss)	Trific Analyses	Database Version 2.0.2 NMM Database	Database load schedule cts and ends, monitor of origin.
Consections Analyses	Connections Analyser Build real time connections using OAG customisable MCIs, phantom flight op Version 2.0 Latt oddind is 196 231 Partiser regrouts Mathieute Partiser regrouts Mathieute Partiser regrouts and Partiser	schedules data and OAG MCT exception tables. Connections Analyser includes analysis with forn and fully customisable QS. Orazabase Analogenet Jan 2017 Number of Jacob 2017 Number of Jacob 2017 Number of Jacob 2017	Ц	Mapper Variables artifies and alignet results networks with options to fully customise the map, save reports and save Version 2.0 Version	e custom formatting.
CC Avalger	DOT Analyser DOT Analyser allows easy and conveni This gives comprehensive insights into Version 2.0 Version 2.0 Persion 2.0 P	Citiz Downwor ent access to US Department of Temport (DOT) statistics including T100, DB1B and Form 41. US initiation data. Database Tool Tool Tool Tool Tool Tool Tool Tool		Reference Dillic OMS's reference data to find information quickly and inform your analysis. Reference currently incl airvant code set alliances, season dates, countries by region, distance calculation, NCT reports and two qui Terminal and Arpurt by Carries. Version 2.0 Pendear good Strobales Pendear good Strobales Pendear good Strobales Pendear good Strobales	udes: airport, airlíne, sk reports – Airport

Each of the products you have a subscription to can be accessed via the relevant box in the centre of the screen, or via the icons in the top right of the screen, and your unique subscription number is shown in the top left corner

To open DOT Analyser, click on **Open DOT Analyser** under the DOT Analyser icon.

On logging into **DOT Analyser**, you will see this screen which is the landing page:

OAG dot analyser

User Guide

	Classic Version Bata Overview
Origin & Destination Reports (DB1B)	Financial Reports (Form 41)
O & D Traffic Reports (Detailed) Create a fully customised report for all DB18 Data to analyse complete passenger litteraries including connection points and fares paid by passengers	Financial Reports Analyse Airline financial reports including both revenue and cost breakdowns
O & D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination including passenger numbers and fares paid	Traffic Summary Reports (T1, T2, T3) View a Summary of T00 Traffic Data and see how each arline performs using standard industry metrics
Top X Report Click here to find out more	Mix Report Click here to find out more
Airline Financial Comparison Report	Airline/Airport Overview Report Click here to find out more
	Origin & Destination Reports (DB1B) O & D Traffic Reports (Detailed) Create a fully customised report for all DB1B Data to analyse complete passenger fiberaries including connection points and fares paid by passengers O & D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination including passenger numbers and fares paid D & D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination including D A D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination including D A D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination including D A D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination including D A D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination including D A D D D D D D D D D D D D D D D D D D

The look and feel of this home screen is similar to the other OAG Analyser modules. There are six reports available, under three headings of Traffic Reports (T100), Origin & Destination Reports (DB1B) and Financial reports (Form 41).

Below these reports are some ideas for new reports. Please click on these and use the questions presented to provide OAG with feedback about what would be useful in future reports for DOT Analyser.

Underneath the area for **New Potential Reports**, you can access the **Job Bin, Saved Reports** and **Scheduled Reports**.

There are 3 main sections in DOT Analyser. This User Guide describes how they work here and provide you with a worked example of each report in this section. You can also access short video guides from our **User Guide** that replicate the content provided here. From the home screen you can click on any of the report names and this will take you to a query screen where you can create a report tailored to your requirements.



3 T100 SEGMENT TRAFFIC REPORTS

3.1 USING THE T100 SEGMENT TRAFFIC POWERTABLE

3.1.1 T100 Segment Traffic Home Screen

The T100 Segment Traffic Reports provide insight into the capacity and traffic trends at an airport or on a flight. Segment data covers all traffic on a flight, and does not take account of where passengers or freight originated from or is destined for, but simply what is being carried between the two airports for a flight.

To start using the T100 Segment Traffic Reports click on Segment Traffic Reports on the home screen. You should click through to a screen which appears like this.

OAG DOT analyser			Reports	s Modules	My OAG	User Guide	Your Account
Parameters Dimension & Metrics Period Types of Flights Carrier Origin & Destination Passengers and Freight Equipment	T100 Segment - Power	Table Report Metrics Search Metrics Search Metrics Court A Passengers & Freight A Passengers & Fr		My Report Current Report	Selections		Data Overview
	Period Month ▼ From Feb ▼ 2018 ▼ To ✓ Use Time Series Latest Avai Types of Flights Selected Flight Type Passenger (with Cargo) ▼	able Data : Domestic Feb 2018 ▼ Scheduled/Non-scheduled All ▼ Civil/Milltary All ▼	v 2017	Clear All This op	tion will clear all re	eport selections.	tun Export
	Carrier Carrier (Dominant) Add Exclusion Domicile © Country © Region Declude US Cerriers Disclude US Cerriers Origin & Destination		0				
	Ta/From Origin Arport City State Country Re	Direction One Way V					



If you already use the other OAG Analyser modules this will be familiar to you. It is a power table in which you create the report you need using the various **Dimensions, Metrics** and **Parameters** avalable to you.

The central area of the screen is where you select these, and the area to the right summarises your **Current Report Selections**. On the left is a list of short cuts to the various types of parameters available to you.

3.1.2 Domestic vs International Data

The US Department of Transport requires airlines to report data for all domestic and international flights. At the top of the screen you can choose whether you need data from the Domestic data, the International data, or both.



At the top right of the screen, there is a **Data Overview** box. Clicking on that opens a pop up which shows what data is included in each T100 report, and what the latest report period is.

Data Overview			
Description	Latest Report Period		
This table contains domestic non-stop segment data reported by both U.S. and foreign air carriers.	Feb 2018		
This table contains international non-stop segment data reported by both U.S. and foreign air carriers.	Nov 2017		
his table contains domestic market data reported by both U.S. and foreign air carriers.			
This table contains international market data reported by both U.S. and foreign air carriers.	Nov 2017		
	Data Overview Description This table contains domestic non-stop segment data reported by both U.S. and foreign air carriers. This table contains international non-stop segment data reported by both U.S. and foreign air carriers. This table contains domestic market data reported by both U.S. and foreign air carriers. This table contains international market data reported by both U.S. and foreign air carriers.		



3.1.3 Dimensions & Metrics

The Dimensions and Metrics define the rows and columns of your data, and you can select as many as you need from the options provided. With each selection you make, the **Current Report Selections** adds the selection to the blue area on the right.

Dimension & Metrics				
Dimensions	Metrics			
Search Dimensions Clear Carrier Clear Crigin & Destination Schedule Charrier Carrier Carrier	Search Metrics Clear Passengers & Freight Capacity RPM/RTM Operations Distance Distance (NM) Distance (KM) Distance (SM) Distance (SM) 			

Each of the Dimensions and Metrics are grouped into categories and clicking on the arrow to the left of each opens up a list of options associated with that category. A full list of the options is available in the **APPENDIX**.

3.1.4 Choosing the Period

For each report you must select a time period for which you want to extract data. If you leave this blank, then the report defaults to all the data contained in DOT Analyser. There are options to see data by month, quarter or year and in time series or aggregated into a single number for the time period selected.

There is a time lag between flights taking place and when the DOT makes data available, but you can see the most recent data available listed below the data options. A full list of the most recent data available for each of the DOT Analyser reports is available in the **Data Overview**, located at the top right of the **Current Report Selections** area of the screen.





3.1.5 Types of Flights

There are three types of flight – Passengers (with Cargo), Cargo only or both. This area of the screen also provides options to select scheduled or non-scheduled flights and civil or military flights. The default option is for both which is the All option.

Types of Flights	
Selected Flight Type	Scheduled/Non-scheduled
Passenger (with Cargo) 🔻	All
	Civil/Military
	All 🔻

3.1.6 Carrier Selection

If you choose not to select a carrier here, data for all carriers will be included in your report. If you have not chosen Carrier as a Dimension, then the data will be aggregated for all airlines. Specifying the Carrier as a Dimension will create a report with data by Carrier.

If you want to specify a carrier, or group of carriers, there are two ways of inputting carrier names – either by 2 letter code separated by a comma i.e. AA, BA, WN, etc., or by typing in the carrier's name which will produce a drop-down list to select from.

If you want to exclude a particular carrier, or group of carriers, you can do so. Click on **Add Exclusion** below the carrier box and, as before, select a single carrier, or group of carriers, in the exclude field by using their two letter code, or name.

Carrier	?
Carrier (Dominant) 🕒	
Add Exclusion Domicile	
Country Region	
Exclude US Carriers	

Another way to choose a group of carriers is by clicking on the **link** logo at the end of the field. This opens up a new box as pictured to the right. If you want to run reports for the same group of airlines many times you can create a group and name it so that it is available to use in future. Firstly, type in the airline two letter codes or names in the **Search by Carrier** field. Select each ope as the name appears once you start typing

Groups : Carri	r x
Create or Edit Gro Search by Carrier	p 🔹
AA,DL,UA,WN	
Save Group New US Big 4	© Existing US Big 4 V Save
Saved Groups	
Name	Carrier Selection
O US Big 4	WN, DL, AA, UA
	OK Clear Cancel



and click on the green + sign to add it to the list of carriers in the group you are creating. When you have selcted all the carriers you want, type in a name for the group in the **Save Group** field, and then click on **Save**. In this example the group created is called **US Big 4** and contains the four largest American airlines.

In the Carrier set of parameters, you can also choose the **Domicile Country** or **Region** for all carriers you want to see in your report.

3.1.7 Origin & Destination

As before, if you leave the Origin and Destination fields blank, data for all origins and destinations will be included. When you select an origin and a destination you are choosing to look at all the data **from** the origin to the destination.

Origin & Destination	(?)
To/From	Direction
Origin 📑	One Way 🔻
Airport O City O State O Country O Region	Distance
Add Exclusion	
Destination 🕒	Kilometers (KM) 🔻
Airport City State Country Region	
Add Exclusion	
O+D Pairs 🕒	

Sometimes you might just want to look at all data **to and from** one specific airport, city, country or region. Clicking on **To/From** allows you to do this and you can look at everything from an origin

O&D Pairs		x
Origin	Destination	
Origin Airport	Destination Airport	0
Origin Airport	Destination Airport	8
Origin Airport	Destination Airport	0
Origin Airport	Destination Airport	0
Add More O & D Pai	n	
Bulk selection Please enter O&Ds wit Example AMS,ABZ AMS,ACE or AMS ABZ AMS ACE	th a comma or space between	
With one pair per line		
		OK Cancel

point.

At the bottom of the query screen on the left, there is an option to choose specific **O&D Pairs**. When you click on it, it opens up the dialogue box shown on the left here.

You can use this box to enter specifc O&D Pairs, or you can use the **bulk origin destination** pairs field which lets you paste in a selection of origin and destination codes from another source.



In the Origin and Destination field you can also choose to restrict the data you see to just one way, two way, or aggregate data for both directions by selecting your preferred option from the drop down under Direction. The distance of a flight can also be used as a filter, either from 0 to a maximum distance, or within a certain range.

3.1.8 Passengers and Freight

As airlines are required to report all flights to the DOT, there will be data included for unusual flights such as flights to a maintenance base. This

Passengers and Freight						
Passenger	Freight	Mail				
> V	(Pax) > • (U	J.S. Tons) 🕞 🔻 🗌 (U.S. Tons)				

area of the query screen allows you to specific minimum or maximum numbers of passengers or tons of freight to qualify for inclusion in your report and is useful if you need to exclude these anomalous flights.

3.1.9 Equipment

Equipment
Search Equipment
Manufacturers
Equipment Group
Equipment Configuration

The final parameter which can be used to define your report is **Equipment**. This allows you to select flights which used specific aircraft types. The blue **Link** options allow groups of multiple equipment types to be included.



3.1.10 Running a Report

Once all the **Dimensions, Metrics** and **Parameters** have been selected, you are ready to run the report by clicking **Run**, on the left. You can also use the **Export** option but it is often helpful to run the report first, check that it provides the data you needed and expected, and then export the data for more detailed interrogiton of the data after that.

3.2 T100 SEGMENT TRAFFIC REPORT - WORKED EXAMPLE

We'll work through an example now to demonstrate what outputs this report can provide. In this example we will look at what has happened to air travel once air services were resumed between the United States and Cuba. We want to see what capacity is being provided on flights between the two countries since January 2016, and how it has changed since then.

We'll select carrier name and O&D (Airport Pair) as dimensions, and then under metrics we'll choose total passengers transported, passenger load factor and seats.

We'll choose month as the period and select January 2016 as the starting point and then August 2017 as the end point.

Scrolling down in the main section, we don't want to add any carriers as we want to see the whole market, so will leave that blank.

We do want to add the origin and destination data to limit the data to just US-Cuba. In Origin we click on country and enter US, and then in Destination we do the same and enter Cuba.

imension & Metrics		(?
imensions	Metrics	
Search Dimensions Clear Carrier Carrier Code Carrier Name Domicile Carrier Country Corrier Name Carrier Region Corrier Region Corrigin & Destination Corrigin & Destination Carrier Region Carrier Regio	Search Metrics Coart Image: Second	
eriod		?

Add Exclusion	
Domicile 📴	
Country Region	
Evolude IIS Conving	
Exclude os camers	
Origin & Destination	
	Direction
Airport City State Country Region	One Way 🔻
United States (US)	Distance
office states (03),	o to o
Add Exclusion	Kilomaters (KM)
Destination 🕒	Moneces (M)
Airport ○ City ○ State ● Country ○ Region	
Cuba (CU),	
Add Exclusion	
O+D Pairs 📑	
O+D Pairs ⊡+	
0+D Pairs 🕩 Passengers and Freight	





It's that simple. Once we've done that, we can check what appears in the **My Report** section on the right

My Report Data Overview								
Current Report Selections								
Dimensions & Metrics Remove								
Carrier Name 💈	O&D Pair (Airport) 🛛 😫	Total Passengers Transported 🛛 😣	Passenger Load Factor 🙁	Seats (Total) 1				
American Airlines	ORD-ABE	1000	50.00	1000				
Types of Flights Flight Type: Passenger (Scheduled/Non-Schedu Civil/Military: All Origin & Destinatio To/From: No Origin Include: US Destination Include: CU	with Cargo) Ied: All N							
Clear All This opt	tion will clear all report	selections.						
			R	un Export				

The data shown in **My Report** at this stage is 'dummy data' and is illustrative of the data that the report will produce.



You could export the report straight from this page but it's always worth running it to check that the data you are expecting is what is generated by the report. This is how the results appear.

er			Rep	orts Modules	My OAG Use
egment - Power	Table Repor	ť	Back to report fields	Export	Schedule
Showing 1 - 10 Of 834 F	Results	Number Of Rows P	Ver Page 10 ▼ Q Fil	lter Results	⊗ ⊉
Carrier Name≑	O&D Pair (Airport)≑	Total Passengers Transported ÷	Passenger Load Factor÷	Seats (Total)‡	TimeSeries ‡
Alaska Airlines Inc.	LAX-HAV	2,919	57.60	5,068	201702
Alaska Airlines Inc.	LAX-HAV	4,296	77.39	5,551	201707
Alaska Airlines Inc.	LAX-HAV	3,142	56.66	5,545	201708
American Airlines Inc.	CLT-HAV	2,403	60.56	3,968	201612
American Airlines Inc.	CLT-HAV	1,500	41.85	3,584	201702
American Airlines Inc.	CLT-HAV	3,172	79.94	3,968	201707
American Airlines Inc.	CLT-HAV	2,066	52.07	3,968	201708
American Airlines Inc.	LAX-HAV	211	32.97	640	201605
American Airlines Inc.	MIA-CFG	930	64.58	1,440	201607
American Airlines Inc.	MIA-CFG	555	38.54	1,440	201608
	834 r <u>esult(</u> s	() found, displaying result <u>(s) from 1</u>	L to 10. Page 1 / 84		D

0&D Pair	(Airport) ÷ Total Passengers Transported ÷ Passenger Load Factor÷	s
U	Export	
V		
V	Report Name	
CI	Characters (Max 20) A-Z 0-9	
CI	File Type	_
0	Note: The CSV format file is limited to approximately 512Mb.	
C	Export Cancel	
Ц		
MIA	-CFG 930 64.58	

From here you can choose to export the report to carry out your own analysis, or schedule it to run again in future or save it if you know you want to look at it or run it again.

Clicking on **Export** opens up the box on the left and you can name the report and choose what type of format you want to export the data in.

Once you've done this, another window appears prompting you to either continue or go to the **Job Bin**. Continuing lets you amend this query or close it and run another one.

LAX-HAV	2,919	57.60
LAX-HAV	4,296	77.39
Export		×
С		
a a	Continue	Go To Job Bin
CLT-HAV	2,066	52.07



The **Job Bin** is where all reports are sent to be processed and you can access it either from here, or from the DOT Analyser home page, or the menu bar on the top right of the screen. This is what it looks like:

OAG DOT analyser								R	eports	Modules	My OAG	User Guide	Your Account
	Job E	Bin											
	Number	of rows pe	er page	10 •									
	Status	Viewed	Job ID	Parameters	Report Name	Report Type	Report Progress	Update Time		View	Download	Delete	
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Search criteria Data Export

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Charts



The **Data Export** is the second tab and simply contains the data we requested. We can then carry out some analysis to see how the US-Cuba market evolved over the time period we selected. We've done some quick analysis displayed below (and shown above as new tabs) that shows how the number of routes operated between Cuba and the US peaked in early 2017, and then declined slightly, with seat capacity following a similar profile. The data we extracted also allows us to show which airline carried most passengers and what their load factor was.



The **User Guide** link from DOT Analyser for this report takes you to our website where there is a short video with a worked example of how to create and extract data using the T100 Segment **Reports.**

These match up with the worked examples that are used here, so you can use this guide and the videos to complement each other if necessary.



4 T100 MARKET TRAFFIC REPORTS

4.1 USING THE T100 MARKET TRAFFIC POWERTABLE

This section considers how to generate reports in the next of the T100 reports, the Market Traffic **Reports**. In this section descriptions of functionality that have been covered above will not be repeated.

T100 Market data is total number of departing passengers on-board a flight minus those passengers on stopping flights who are not on the first segment of that flight (whether those passengers are non-stop, first segment of a stopping flight or connecting).

As before, to start using the T100 Market Traffic Reports, click on Market Traffic Reports from the home screen. When you click through the following screen appears.

OAG DOT analyser			
Parameters Dimension & Metrics Period Types of Flights Carrier Origin & Destination Passengers and Freight	T100 Market - Power Table Report Domestic International Both Dimension & Metrics Dimensions Search Dimensions Cear Dimensions Cear Activity Type	Metrics Search Metrics ▷ ☐ ➔ Passengers & Freight	0
	Period Month From Feb 2018 To Feb 201 Use Time Series Types of Flights Selected Flight Type Passenger (with Cargo) Carrier Carrier Carrier	Latest Available Data : Domestic Feb 2018 , Internation Scheduled/Non-scheduled All v Civil/Military All v	Image: Constraint of the second sec

This report is also structured as a power table. There is one less Dimension in this report, as Equipment is not covered, and this time only Passengers and Freight appear in the Metrics options. All of the Dimensions and Metrics for each table are listed in the **APPENDIX** at the end of this document.



Dimension & Metrics	0
Dimensions	Metrics
Search Dimensions Clear Carrier Crigin & Destination Check Carrier Activity Type	Search Metrics Clear Passengers & Freight Passengers Local (Total) Freight Local (US Tons) Mail Local (US Tons) Freight and Mail Local (US Tons)

4.2 T100 MARKET TRAFFIC REPORT - WORKED EXAMPLE

We'll do another worked example to demonstrate the data that this report can provide. This time we'll look at the passenger data by airline and routes between New York and Los Angeles. We'll choose to just look at the Domestic Report, so you can see from the screenshot below we've selected that. We want the results to be displayed by airline name, so we'll click on the arrow next to carrier and then choose carrier name from the options displayed below. For this example, we want to look at data for November 2017, so we select Month (the default) in Period, and then change the date to Nov 2017 in both boxes. You can see that the selections we've made so far appear on the right-hand side.

OAG DOT analyser		Reports Modules My OAG User Guide Your Account
T100 Market - Power Table	Report	My Report Data Overview
Domestic International Both	()	Current Report Selections
Dimension & Metrics Dimensions Search Dimensions	() Metrics	Dimensions & Metrics Remove
Clear ▲ ■ → Carrier ■ ☆ Carrier Code	Clear ▶ □ → Passengers & Freight	American Airlines Report Domestic/International : Domestic
🗹 🛧 Carrier Name		Period Month: Nov2017 to Nov2017 Time Series: Yes
		Types of Flights Flight Type: Passenger (with Cargo) Scheduled/Non-Scheduled: All Civil/Military: All
Period	0	
Month V From Nov V 2017 V To	Nov V 2017 V	
Use Time Series	Latest Available Data : Feb 2018	



Then we need to select a further dimension to display the routes. We'll open the origin and destination arrow and scroll down the options to O&D Pair (Airport). We'll then add a metric, in this case we want Passengers Local (Total).

Dimension & Metrics		
Dimensions	Metrics	
Arr Country Code Arr Country Name Arr Region Code Arr Region Name O&D Pair (Airport) O&D Pair (City) O&D Pair (Country) O&D Pair (Country) O&D Pair (Country) O&D Pair (Region) Activity Type	 Search Metrics Passengers & Freight Passengers & Freight Passengers Local (Total) Freight Local (US Tons) Mail Local (US Tons) Freight and Mail Local (US Tons) 	

In the next section, **Types of Flights**, we're going to filter out military flights, so we'll choose civilian from the dropdown box under civil/military (the default is all).

Types of Flights		0
Selected Flight Type		Scheduled/Non-scheduled
Passenger (with Cargo) ¥	\subset	All Civil/Military Civilian

We don't need to make any other changes to Types of Flights or Carrier, so

we'll leave those sections unchanged, but we could have chosen to include cargo flights, or restrict the data to scheduled flights only.

To/From Origin	Direction One Way T Distance 0 to 0 Kilometers (KM) T
© Airport	

The last step is to select the origin and destination we want to see, in this case the origin is New York and the destination is Los Angeles. We're going to look at these two destinations at a city level, so we click on City under Origin and then start typing New York.

We do the same for Los Angeles and then we're ready to run our query.

Now that we've included everything we need in the query, we can check the Current Report Selections and then click on run.



Here's our data – as before we can export it to carry out some further analysis in Excel, or schedule it to run again next month, or save it for future use.

QAG DOT analyser		Reports Modules	My OAG User Guide	Your Account
T100 Market - Power Table Report	Back to report	fields Export	Schedule	Save
Showing 1 - 8 Of 8 Results	Number Of Rows Per Page 10 🔻 🥄 Filter Resu	ilts 😣 😭		
Carrier Name ‡	Passengers Local (Total) ¢	TimeSeries		_
American Airlines Ir	ас. 30,959	201711		ť
Delta Air Lines Inc	47,746	201711		Repo
JetBlue Airways	52,411	201711		My
Southwest Airlines (Co. 106	201711		0
Spirit Air Lines	20	201711		
Swift Air, LLC	0	201711		
United Air Lines Inc	c. 63,688	201711		
Virgin America	37,404	201711		
8 result	t(s) found, displaying result(s) from 1 to 8. Page 1/1	۵		

Clicking on **Schedule** opens up the following box where we can give the report a name and description, indicating how frequently we want it to be run – either monthly or quarterly for this report - whether we want it to be static in terms of the dates, or update as new time periods are added, and then what format we need it in. Finally, we can enter an email address(es) that we want to have the report sent to.

)elta Ai	r Lines Inc. 47,746
JetBl	Schedule Report
spir Swi nited	Report Name 1 New Characters (Max 20) A-Z 0-9 Report Description
	Run Report Monthly (first day of each month) ▼ Rolling Dates ● Y ● N File Type ● CSV ● PDF ● XLS ● XLSX Distibution List
	Save Cancel



Once you've scheduled a report, you can review it anytime by going to the My OAG tab at the top of the screen and selecting scheduled reports from the dropdown. This lets you see all the reports you have scheduled, and you can then view individual reports, edit them or delete them from here. You can also see when the report was last run.

OAG DOT analyser							Reports	Modules	My OAG	User Guide	Your Account
	Schedule Number of rows Report Name	d Repor	ts 10 v Run Report	File Type	Recipients ≎	Last Run	View	Edit	Saved Rep Scheduled Job Bin Customise User Prefe	e Groups	
	NYCLAXReport		Monthly (first day of each month)	XLSX	anyone@oag.com;		Open	Edit	8		
				1-1	Of 1 Results						

We'll go back now to the report output screen.

T100 Market - Power Table Report	Back to report f	ields Export	Schedule	Sav
Showing 1 - 8 Of 8 Results Number Of F	Rows Per Page 10 🔻 🤇 Filter Result	ts 😣 😭		
Carrier Name =	Passengers Local (Total) ÷	TimeSeries		
American Airlines Inc.	30,959	201711		
Delta Air Lines Inc.	47,746	201711		
JetBlue Airways	52,411	201711		
Southwest Airlines Co.	106	201711		
Spirit Air Lines	20	201711		
Swift Air, LLC	0	201711		
United Air Lines Inc.	63,688	201711		
Virgin America	37,404	201711		
8 result(s) found, dis	playing result(s) from 1 to 8. Page 1 / 1	۵		

As before, we'll export the data to Excel and some quick analysis allows us to see the most popular routes and the market share each carrier has of passengers between New York and Los Angeles.







The **User Guide** link from DOT Analyser for this report takes you to our website where there is a short video with the same worked example of how to create and extract data using a T100 Market Report.



5 O&D TRAFFIC REPORTS

5.1 USING THE O&D TRAFFIC REPORTS (DETAILED) POWERTABLE

The O&D Traffic Reports use DB1B data and represent a 10% sample of all passenger trips taken. There are two O&D Reports, a detailed one and a summary level one. The O&D Traffic Reports (Detailed) has a few more options than the O&D Traffic Reports (Summary), allowing you to analyse deeper and see data in terms of the ticketed coupons. There's the addition of Ticketed and Reporting carriers and a field to specify the connecting location.

The main difference is that the simplified report provides data at an Origin and Destination, or O&D level, and does not include data about how the passenger travelled between the Origin and Destination. What this means is there is no detail about the connecting airports or the itinerary in the Summary report.



DB1B data is also only collected from US carriers so there is no international data available for foreign carriers. International data for US carriers is only available to US parties.



OAG DOT analyser			
Parameters Dimensions & Metrics Period Carrier Origin & Destination Coupons Ticketed Revenue Cabin Type	DB1B Detailed - Power Table Dimension & Metrics Dimensions Carrier Carrier Carrier Carrier Carrier Carrier Carrier Carrier Carrier Coupons	Metrics Search Metrics Clear Clear Clear Distance	0
	Period Quarter V From Q3 (Jul-Sep) V 2017 V @ Use Time Series	To Q3 (Jul-Sep) V 2017 V Latest Available Data : 3rd Qtr 20	7
	Carrier Operating Carrier Ticketed Carrier Reporting Carrier 		0
	Origin & Destination		(?)

DB1B Detailed - Power Table Report Dimension & Metrics Dimensions Metrics Search Dimensions Gener Dimensions	 Coupons Coupon Count Fare Codes by Coupon Frequent Flyer Indicator Operating Carrier Coupon Types Ticketed Carrier Coupon Types
Period	Search Dimensions Clear ▶ → Carrier ▶ → Origin & Destination
Quarter ▼ From Q3 (Jul-Sep) ▼ 2017 ▼ To Q3 (Jul-Sep) ▼ 2017 ▼ W Use Time Series Latest Available Data : 3rd Qtr 2017	 Ticketed Revenue Individual Ticket Value (US Dollars) Distance
Carrier () • Operating Carrier • Ticketed Carrier • Reporting Carrier	 Itinerary Circuit Distance (KM) Itinerary Circuit Distance (NM) Itinerary Circuit Distance (SM)
	Coupons



5.2 O&D TRAFFIC REPORT (DETAILED) - WORKED EXAMPLE

We'll look firstly at the detailed report. You will see from the dimensions and metrics that these look a little different to those in the Traffic reports. In addition to the standard Carrier and Origin and Destination options, we now have 3 additional dimensions. These are Ticketed Revenue, Distance and Coupons. These are shown in more detail in the boxes above.

We'll run through a worked example here to demonstrate how best to access data from this report.

We're going to look at how people travel between New York and Hawaii. We'll be able to see which routings are most popular, what the average fares are by airline and how they differ according to the choice of routing.

We start by choosing the dimensions and metrics which define the structure of our report. We want to see **Carrier** so we'll select **Reporting Carrier Name**. Then we'll open the **Origin and Destination** dimensions and scroll down **to Passenger Itinerary** and select that. On **Metrics**, we want to see data for all passengers, so we'll open the **Ticketed Revenue** option and select **Number of Passengers (Adjusted)**. This is the number in the sample data which has been scaled up by a factor of 10.

DB1B Detailed - Power Table Report	t	ĺ		My Report				Di	ita Overview
Dimension & Metrics	Nation	0		Current	t Report Selections				
Dimensions	Metrics			Dimensions & Metrics	Remove				
Search Dimensions	Search Metrics Clear ▲ ■ → Ticketed Revenue			Reporting Carrier Name	Passenger Itinerary	Number of Passeng	pers (Adjusted) 🧯	Total Revenue (US Dollars) (Adjusted)	Average Yi
Grigin & Destination Ticketed Revenue	Vumber of Passengers (Adjusted)			Period	ABCOMMAR	1 200			*
 Distance Coupons 	Total Revenue (US Dollars) (Adjusted)	11		Quarter: Q3 2017 to Q3 2017 Time Series: Yes					
	Average Yield (US Cents)								
	RPMs (Adjusted)	•	L						

It's worth noting here that we have both the number of passengers and an adjusted number of passengers because the US DOT's O&D data comes from a sample of the whole market. The actual data is the passenger numbers in the dataset, while the adjusted figure is the data adjusted as if it were the whole market. In this instance because the survey is a sample of 10% of all tickets it simply means that the adjusted passenger number is 10 times higher than the actual passengers in the dataset. It will usually be the adjusted number, which reflects the whole market, that you will need for analysis.

We also want to look at average fares and yields so we'll select **Total Revenue Adjusted** and **Average Yield.**

The structure of our report is starting to take shape. Now we need to select some more parameters as if we click to run our report at this stage, we'll get data for every airline and every route in the database and every time period. First, we'll choose the time period we want to look at in this case, and we'll use the default option which is the 3rd Quarter 2017 at the tie we are working on this example. The time periods for this report are Quarters or Years.



Period	0
Quarter V From Q3 (Jul-Sep) V 2017 V	
To Q3 (Jul-Sep) ▼ 2017 ▼	
✓ Use Time Series	Latest Available Data : 3rd Qtr 2017

We want to see all carriers so we don't need to select anything here, but we could have chosen to specify the Reporting Carrier or carriers, the Ticketed Carrier, or the **Operating Carrier**.

Excluded Operating Carrier 🛛 🕒 🔕

Direction

All

0

Distance

One Way 🔻

Domestic/International

to 0

Kilometers (KM)

•

v

In each of these fields you can or choose one, or a number of carriers, or select carriers that are domiciled in a particular country or region. You can also exclude carriers in this section by clicking on Add Exclusion which opens up a new box as shown below.

> Carrier Operating Carrier

Sole Carrier

To/From Origin 🕒

New York (NYC),

Connecting 📑

Destination 🕒

Hawaii,United States (HI,US),

Add Exclusion

Add Exclu

Operating Carrier 🕒

Origin & Destination

Airport
 City
 State
 Country
 Region

● Airport ● City ● State ● Country ● Region

	Carrier
	 Operating Carrier
	Operating Carrier 🕞
	Add Exclusion
	📄 Sole Carrier
	Domicile 🕒
	Country Region
	Add Exclusion
The	
next	Ticketed Carrier
set	Reporting Carrier

next	-
set	
of	

parameters are the Origin and Destination. We want the origin to be the city of New York and the destination to be the state of Hawaii. We don't need to specify a connecting point here as we want to see all possible routings taken by passengers, but we could do if we wanted to see a specific routing. The last parameters in the **O&D Traffic Reports** (Detailed) are towards the bottom. They are Coupons, Ticketed Revenue and Cabin Type. The

Coupon Count allows you to specify the maximum, minimum or exact number of coupons per ticket. This equates to the number of trip segments in a true O&D passenger trip. The Fare Class 29

and cabin type. The	Add Exclusion	
	O+D Pairs 📑	
Coupons		0
Coupon Count		
T 0		
Fare Class	Trip Qualifier	
•	▼	
Operating Carrier	Ticketed Carrier	
T	T	
Ticketed Revenue		0
Passenger		
(Pax)		
Cabin Type		(7)
All		



option allows you to select the different coupon fare class to be included in your search.

This allows you to specify or exclude Frequent Flyer coupons. The **Trip Qualifier** allows you to select coupons that are either the first, last, middle or only coupon within a ticket. Users may select one or more entries in this field.

You can select operating carrier and/or ticketed carrier in this field too. You can also filter the Adjusted number of passengers transported here using **Ticketed Revenue** function. This allows you to exclude data where the number of passengers/freight is very small and may not reflect a significant market size.

Lastly **Cabin Type** allows you to select First, Business or Economy, or use the default option which is all ticket classes. In our worked example we won't amend any of these. Now we can check the current report selections to make sure it has all the fields we need and, if so, click on run.

My Report					Data Overview
Current	Report Selections				
Dimensions & Metrics	Remove				
Reporting Carrier Name 🙁	Passenger Itinerary 🙁	Number of Passen	gers (Adjusted) 🙁	Average Yield (US Cents) 🙎	Total Revenue (US Doll:
American Airlines	ABE-DTW-ATL	100		100	100
nime Series: Yes Origin & Destination To/From a Single Location: N Origin Include: NYC Destination Include: (HI,US)	0				
Clear All This option	will clear all report	selections.			Run Export

Once we click run this is what the report looks like and we can export, schedule or save it for use another time.



howing 1 - 10 Of 414 Results			Number Of Rows Per Page 10 V Filter Results		
eporting Carrier Name 🗢	Passenger Itinerary ÷	Number Of Passengers (Adjusted) ÷	Average Yield (US Cents) ÷	Total Revenue (US Dollars) (Adjusted) ÷	TimeSerie
Alaska Airlines Inc.	EWR-SAN-HNL	30	9.73	14,706.50	20173
Alaska Airlines Inc.	EWR-SEA-KOA-OGG	10	12.54	6,489.90	20173
Alaska Airlines Inc.	EWR-SEA-OAK-PDX-OGG	10	1.56	963.70	20173
American Airlines Inc.	EWR-DFW-KOA-HNL	10	10.53	5,539.20	20173
American Airlines Inc.	EWR-DFW-LAX-LIH	10	11.69	6,103.60	20173
American Airlines Inc.	EWR-PHX-LAX-HNL	20	18.63	18,844.80	20173
American Airlines Inc.	EWR-PHX-LIH	120	12.92	79,226.90	20173
American Airlines Inc.	EWR-PHX-SFO-LAX-HNL	10	8.10	4,599	20173
American Airlines Inc.	JFK-LAX-HNL-OGG	10	13.60	6,976.10	20173
American Airlines Inc.	JFK-LAX-OGG	600	10.40	309,622.10	20173
		$(\bigcirc \bigcirc$)		C

If we click on the small paper icon at the bottom of the data report, this allows us to download the data straight to MS Excel without going via the export function. This functionality is only available where there are less than 1,000 rows of data. The default display here is for 10 rows of data, but you can change that to show 25, 50 or 100. You can also sort each column by highest to lowest by clicking on the up and down arrows to the right of each column heading. You can also filter the results using the box next to the **Number of Rows** field, perhaps by carrier, or for a specific passenger itinerary.

Exporting this data to a spreadsheet would allow you to carry out some analysis on how pricing of direct routes compares with connecting routes.

The user guide link from DOT Analyser for this report takes you to our website where there is a short video with the same worked example of how to create and extract data using the O&D Market Traffic Reports (Detailed).

5.3 USING THE O&D TRAFFIC REPORTS (SUMMARY) POWERTABLE

The other O&D reporting option is the O&D Market Traffic Reports (Summary). As we noted in the section above this report is at a summary level and does not include data about how passengers travel between an Origin and a Destination.



OAG DOT analyser		
Parameters Dimensions & Metrics Period Carrier Origin & Destination Coupons Cabin Type	DB1B Summary - Power Table Report Dimension & Metrics Dimensions Central Central Central Central Origin & Destination	Ort Metrics Search Metrics Clear ▷ → Ticketed Revenue
	Period Quarter ▼ From Q3 (Jul-Sep) ▼ 2017 ▼ To Q3 (Jul @ Use Time Series	() II-Sep) V 2017 V Latest Available Data : 3rd Qtr 2017
	Carrier Operating Carrier Add Exclusion	0
	Origin & Destination To/From Origin Airport City State Country Region Add Exclusion Destination	⑦ Direction One Way ▼ Distance 0 to 0 Kilometers (KM) ▼

The main differences between the summary and detailed reports are in the Dimensions and Metric sections. The Summary report has the following dimensions and metrics



DB1B Summary - Power	Table Report	
Dimension & Metrics		?
Dimensions	Metrics	
Search Dimensions Clear Clear Carrier Control of the second se	Search Metrics	

The remaining parameters in the O&D Traffic Reports (Summary) are similar to those of the O&D Traffic Reports (Detailed), with one main difference. The coupon section just has the coupon count and fare class options.

Period	\bigcirc
Quarter ▼ From Q3 (Jul-Sep) ▼ 2017 ▼ To Q3 (Jul-Sep) ▼ 2017 ▼	
Use Time Series	Latest Available Data : 3rd Qtr 2017
Carrier Operating Carrier Add Exclusion	0
Origin & Destination	3
To/From Origin Airport Origin Add Exclusion Destination Add Exclusion Add Exclusion Add Exclusion O+D Pairs P	Direction One Way Distance 0 to 0 Kilometers (KM)
Coupons Coupon Count To 0 Fare Class T	0
Cabin Type	0

If we were to replicate the query we ran in the previous section, choosing Airport O&D instead of itinerary (which isn't available to us in this report), the output looks like this:



Showing 1 - 10 Of 81 Re	esults		Number Of Rows Per Pa	age 10 • Q Filter Results	8 😫
Carrier Name¢	O&D Pair (Airport)≑	Number Of Passengers (Adjusted) +	Average Yield (US Cents) ÷	Total Revenue (US Dollars) (Adjusted) ≑	TimeSeries
United Air Lines Inc.	EWR-HNL	16,860	10.94	9,200,699.50	20173
Hawaiian Airlines Inc.	JFK-HNL	15,560	10.16	7,880,137.50	20173
United Air Lines Inc.	EWR-OGG	3,400	10.89	1,820,048.60	20173
Delta Air Lines Inc.	JFK-HNL	3,080	9.13	1,420,781.50	20173
American Airlines Inc.	JFK-HNL	2,470	9.87	1,231,597.40	20173
Delta Air Lines Inc.	JFK-OGG	2,050	9.21	947,651.70	20173
Hawaiian Airlines Inc.	JFK-OGG	2,020	10.58	1,088,074.60	20173
Mixed Carriers	JFK-HNL	1,920	10.90	1,080,159.50	20173
American Airlines Inc.	JFK-OGG	1,600	9.09	724,633.70	20173
Delta Air Lines Inc.	JFK-KOA	1,410	8.69	622,338.40	20173



6 FINANCIAL REPORTS (FORM 41)

6.1 USING THE FINANCIAL REPORTS POWERTABLE

The **Financial Reports** in DOT Analyser enable you to carry out fast and straightforward analysis of the airline financial data gathered by the US Department of Transportation via its Form 41.

The Form41 data is a key source of financial information about US airlines including balance sheets, income statements, employee counts and traffic summaries. US Federal law requires that most American passenger and cargo airlines report financial and operating information on a monthly, quarterly or semi-annual basis.

There are two options in the Financial Reports (Form 41) section, the Financial Reports and Traffic Summary Reports. The Traffic Summary Reports are derived from T100 data but aggregated to remove sensitivities about data disclosure. They provide a high-level view of airline (T1), aircraft (T2) and airport performance (T3).

raffic Reports (T100)	Origin & Destination Reports (DB1B)	Financial Reports (Form 41)
Segment Traffic Reports Dynamic table to create a fully customised report for T100 Segment Data for both Domestic and International flights to analyse passenger, capacity, freight and mail statistics	O & D Traffic Reports (Detailed) Create a fully customised report for all DB1B Data to analyse complete passenger Itineraries including connection points and fares paid by passengers	Financial Reports Analyse Airline financial reports including both revenue and cost breakdowns
Varket Traffic Reports lynamic table to create a fully customised report for T100 Market Data for both Jomestic and International flights to analyze local passengers, freight and mail	O & D Traffic Reports (Summary) Create a fully customised report to analyse DB1B Data by origin and destination Including passenger numbers and fares paid	Traffic Summary Reports (T1, T2, T3) View a Summary of T100 Traffic Data and see how each airline performs using standard industry metrics

Like the Traffic & O&D reports, it has numerous options to tailor the data request to what you need, but not every box needs to be filled in every time. Often you may only need to fill in a few of the options, so it's worth spending a bit of time familiarising yourself with the query screen.

To get to the query screen you can click through on one of the report headings. Let's go firstly to the Financial Reports. This is where you can quickly and easily extract data about airline financial performance. There are 9 tables for Large Airlines (revenue >\$20m) and 5 tables for Small/Medium Airlines (revenues <20m).


OAG DOT analyser			
Parameters	Form 41 Power Table		
Form 41 Tables Dimension & Metrics Period Carrier	Form 41 Tables Large > \$20m Airlines B1- Balance Sheet P1.2 - Profit and Loss P5.1 - Aircraft Operating Expenses (Carri P5.2 - Aircraft Operating Expenses (Carri P6- Operating Expenses (Carriers with C P10 - Detailed Monthly Employee Stats P1(a) - Annual Employee Totals P12(a) - Fuel Small/Medium < \$20m Airlines B1.1 - Balance sheet P1.1 - Profit and Loss P1.2 (a) - Funual Employee Totals P1.2 (b) - Annual Employee Totals P1.2 (b) - Annu	L POWER TADLE ibles > \$20m Airlines 1 - Balance Sheet 1 - Balance Sheet 1 - Profit and Loss 5.1 - Aircraft Operating Expenses (Carriers with Op. Rev <\$100M) 5.2 - Aircraft Operating Expenses (Carriers with Op. Rev > \$20m) 6 - Operating Expenses (Carriers with Op. Rev > \$20m) 7 - Operating Expenses (Carriers with Op. Rev > \$20m) 10 - Detailed Monthly Employee Stats 1(a) - Annual Employee Totals 11 - Profit and Loss 5.1 - Aircraft Operating Expenses (Carriers with Op. Rev <\$20M) 1(a) - Annual Employee Totals	
	Dimension & Metrics		1
	Dimensions Search Dimensions Clear Carrier Code Carrier Name Carrier Group Carrier Type Active/Inactive	Search Metrics Clear > > Current Assets > > > > > Operating Property and Equipment > > Other Assets > > Total Assets > > Total Assets > > > > > Total Assets > > > > > Deferred Credits	*
	Period		?
	Quarter V From Q3 (Jul-Sep) V	D17 V To Q3 (Jul-Sep) V 2017 V Latest Available Data : 30	rd Qtr 2017

For each table, the dimensions and metrics change according to what's in each table. The next two screenshots show how they change between the P5.2 Aircraft operating expenses table and the P12(a) Fuel table. In the **APPENDIX** we list each of the associated dimensions and metrics for each table, so you can refer to those if necessary.



Form 41 Tables		?
 Large > \$20m Airlines 		
O B1 - Balance Sheet		
O P1.2 - Profit and Loss		
O P5.1 - Aircraft Operating Expenses (Carriers wi	th Op. Rev <\$100M)	
P5.2 - Aircraft Operating Expenses (Carriers with the second s	th Op. Rev >\$100M)	
O P6 - Operating Expenses (Carriers with Op. Re	v. > \$20m)	
O P7 - Operating Expenses (Carriers with Op. Re	v > \$1Bn)	
O P10 - Detailed Monthly Employee Stats		
O P1(a) - Annual Employee Totals		
O P12(a) - Fuel		
 Small/Medium < \$20m Airlines 		
O B1.1 - Balance sheet		
O P1.1 - Profit and Loss		
O P5.1 - Aircraft Operating Expenses (Carriers wi	th Op. Rev <\$20M)	
O P1(a) - Annual Employee Totals		
Dimensions	Metrics	
Search Dimensions Clear	Search Metrics Clear	
🔲 🛧 Carrier Code	Flying Operations	
🔲 👫 Carrier Name	Direct Maintenance - Flight Equipment	
🔲 👫 Carrier Group	🕨 🔲 🔶 Applied Maintenance Burden - Flight Equipment	
🔲 🐥 Carrier Type	Net Obsolescence And Deterioration - Expendable Parts	
Carrier Region	Depreciation - Flight Equipment	
Active/Inactive	Amortization Flight Equipment	
Equipment Group	Expense Of Interchange Aircraft	
Equipment Type	Aircraft Operating Expense (Direct Operating Expense)	
Equipment Flight Type	Other Depreciation and Amortization (Non-Flight Equipment)	
		*



orm 41 Tables		0
 Large > \$20m Airlines 		
O B1 - Balance Sheet		
O P1.2 - Profit and Loss		
O P5.1 - Aircraft Operating Expenses (Carrier	rs with Op. Rev <\$100M)	
O P5.2 - Aircraft Operating Expenses (Carrier	rs with Op. Rev >\$100M)	
O P6 - Operating Expenses (Carriers with Op	. Rev. > \$20m)	
O P7 - Operating Expenses (Carriers with Op	. Rev > \$1Bn)	
O P10 - Detailed Monthly Employee Stats		
O P1(a) - Annual Employee Totals		
P12(a) - Fuel		
Small/Medium < \$20m Airlines		
O B1.1 - Balance sheet		
O P1.1 - Profit and Loss		
O P5.1 - Aircraft Operating Expenses (Carrier	rs with Op. Rev <\$20M)	
 P5.1 - Aircraft Operating Expenses (Carrier P1(a) - Annual Employee Totals 	s with Op. Rev <\$20M)	
O P5.1 - Aircraft Operating Expenses (Carrier O P1(a) - Annual Employee Totals imension & Metrics	s with Op. Rev <\$20M)	
O P5.1 - Aircraft Operating Expenses (Carrier O P1(a) - Annual Employee Totals imension & Metrics Netrics	s with Op. Rev <\$20M) Metrics	
O P5.1 - Aircraft Operating Expenses (Carrier O P1(a) - Annual Employee Totals imension & Metrics Dimensions	Metrics	
O P5.1 - Aircraft Operating Expenses (Carrier O P1(a) - Annual Employee Totals imension & Metrics bimensions Search Dimensions Clear	Metrics Search Metrics Clear	
O P5.1 - Aircraft Operating Expenses (Carrier O P1(a) - Annual Employee Totals imension & Metrics bimensions Search Dimensions Clear Cerrier Code	Metrics Search Metrics Clear	
O P5.1 - Aircraft Operating Expenses (Carrier O P1(a) - Annual Employee Totals imension & Metrics Vimensions Search Dimensions Clear Clea	Metrics Search Metrics Clear Fuel	
PF.1 - Aircraft Operating Expenses (Carrier P1(a) - Annual Employee Totals imension & Metrics Search Dimensions Cearr Cear	Metrics Search Metrics Clear Fuel	
PF.1 - Aircraft Operating Expenses (Carrier P1(a) - Annual Employee Totals imension & Metrics Search Dimensions Cearr Cear	Metrics Search Metrics Clear Fuel	
PF.1 - Aircraft Operating Expenses (Carrier P1(a) - Annual Employee Totals imension & Metrics Dimensions Search Dimensions Clear Cearrier Code Cearrier Code Carrier Code Carrier Group Carrier Type Carrier Region	Metrics Search Metrics Clear Fuel	
PF.1 - Aircraft Operating Expenses (Carrier P1(a) - Annual Employee Totals imension & Metrics Dimensions Search Dimensions Clear Cearrier Code Carrier Code Carrier Type Carrier Type Carrier Region Active/Inactive	Metrics Search Metrics Image: search Metrics <t< td=""><td></td></t<>	
P5.1 - Aircraft Operating Expenses (Carrier P1(a) - Annual Employee Totals imension & Metrics Nimensions Search Dimensions Clear Cerrier Code Carrier Code Carrier Rame Carrier Type Carrier Figuon Active/Inactive Schedule Type	Metrics Search Metrics Clear Fuel	

Each table has a different reporting period, so if you open **Data Overview** on the right of the screen, in the My Report section, you can see at a glance what the latest reporting period is for each table.

Table Name	Description	Latest Report Period	
Form 41 - B-1	This table contains quarterly operating balance sheet statements for large certificated U.S. air carriers with annual operating revenues of \$20 million or more.	3rd Qtr 2017	
Form 41 - B-1.1	This table contains semi-annual operating balance sheet statements for U.S. air carriers with annual operating revenues of less than \$20 million.	1st half 2017	
Form 41 - P-10	Annual Employee Statistics by Labor Category.	2016	
Form 41 - P-1.1	This table provides semi-annual profit and loss statements for carriers with annual operating revenues of \$20 million or less.	1st half 2017	
Form 41 - P-1.2	This table provides quarterly profit and loss statements for carriers with annual operating revenues of \$20 million or more. 3rd Qtr 2017		
Form 41 - P-12(a)	This table contains monthly reported fuel costs, and gallons of fuel consumed, by air carrier and category of fuel use. Sep 2017		
Form 41 - P-1(a)	Monthly Interim Operations Report of Air Carrier Employment. Jan 2018		
Form 41 - P-5.1	The table contains aircraft operating expenses for large, and medium regional air carriers. The data for large regional carriers are available on a quarterly basis, while for medium carriers data are available semiannually. 3rd Qtr 2017		
Form 41 - P-5.2	The table contains detailed quarterly aircraft operating expenses for large certificated U.S. air carriers. 3rd Qtr 2017		
Form 41 - P-6	These data contain quarterly operating expenses, by objective grouping, for carriers with annual operating revenues of \$20 million or more. 3rd Qtr 2017		
Form 41 - P-7	This table contains quarterly operating expense statements, by functional grouping, for large certificated U.S. air carriers. 3rd Qtr 2017		

6.2 O&D TRAFFIC REPORT (SUMMARY) - WORKED EXAMPLE

We'll take a look at an example now which is the best way to illustrate how to use these reports. We're going to compare fuel use by the four largest airlines in the US, both in terms of gallons and cost, and then we can compare that with data about the miles flown for the same period from the traffic report, to get a sense of which airline is managing to keep their fuel costs lowest.



P12(a) - Fuel				
Small/Medium < \$20m Airline	Small/Medium < \$20m Airlines			
O B1.1 - Balance sheet				
P1.1 - Profit and Loss				
P5.1 - Aircraft Operating Expenses (Carriers with Op. Rev <\$20M)				
O P1(a) - Annual Employee Totals				
Dimension & Metrics				
Dimensions	Metrics			
Search Dimensions	Search Metrics			
Clear	Clear			
🔲 🛧 Carrier Code	🔺 😴 🔶 Fuel			
👿 🛧 Carrier Name	🗑 🛧 Gallons			
🔲 🛧 Carrier Group	쭏 🛧 Cost			
🔲 🛧 Carrier Type				
🔲 📥 Carrier Region				
Active/Inactive				
Schedule Type				
Business Type				
- It bounces type				
2017 which is the default month so we'll use that				

To do this we'll start with the P12(a) report for the large airlines. This is the report that provides data about fuel use.

The dimensions and metrics for this report are quite simple. We'll select just Carrier Name and then looking at metrics we can see there are just two, which are Gallons and Cost. We want to see both of these in the data, so we'll select them both.

Now we need to define the time period that we want the data to be extracted for, so we move down to time period. For this report, data is available for month, guarter, half year and year. The latest data available for this report is September

Period		?
Month ▼ From Sep ▼ 2017 ₹ 2017 ₹ 2017 ₹ 2017 ₹ 2017 ₹ 2017 ₹ 2017 ₹ 2017 ₹ 2017 ₹ 2017 ₹ 2017 ₹		
Month Quarter	Latest Available Data :	Sep 2017
Halt Year Year ilights		?
Scheduled/Unscheduled	Civil/Military	
Alt	All	

We could choose to split this data out into scheduled or charter airlines or by civilian or military

flights, but in this case, we'll leave the defaults as they are, as we will specify the airlines we want to consider below in the Reporting Carrier field. We'll enter American Airlines, United Airlines, Delta Air Lines and Southwest Airlines.

0
Carrier Status
Both 🔻
Carrier Type
All



/ Report	Data Overview
Current Report Selections	
Dimensions & Metrics Remove	
Carrier Name 🙁 Gallons 🙁 Cost 🙁	
American Airlines 26.12 62.18	
Form 41 Table Fable: P12(a) - Fuel	
Period Aonth: Sep2017 to Sep2017 Time Series: Vas	
Corrior	
Reporting Carrier ncluded: AA, UA, DL, WN	
Clear All This option will clear all repor	t selections.

We don't need to add anything else to this query as we have all we need. We can check what parameters have been selected by reviewing the **My Report - Current Report Selection** area of the screen.

We can see the dimensions and metrics at the top, followed by which table we are extracting data for, then the time period and the carriers we want to include.

If we decided we wanted to remove any of the dimensions and metrics, clicking on the red cross in each field allows us to do that.

For now, though, we'll click run as we're happy with the current report selection.

Here's the data.

m 41 Power Table			Back to report fields	Export	Schedule	Save
Showing 1 -	4 Of 4 Results Number Of F	Rows Per Page 10	• Q Filter Results	8 🗈		
c	Carrier Name‡	Gallons +	Cost÷	TimeSeries		
Ame	erican Airlines Inc.	277,280,454	474,298,088	201709		
Del	elta Air Lines Inc.	283,484,031	498,229,067	201709		
South	thwest Airlines Co.	154,648,357	303,063,218	201709		
Unit	ited Air Lines Inc.	276,441,284	478,835,918	201709		
	4 result(s) found, dis	splaying result(s) from	1 to 4. Page 1 / 1	D		

You can see that the gallons and cost for each airline is displayed and as before, you can export, schedule or save this query. Clicking on the paper symbol in the bottom right hand corner allows you to directly export this data, opening it up as a CSV file. It doesn't export the parameters or report information, just the raw data and headings as shown below, but if you're doing some quick analysis this might be all you need.



Α	В	С	D	E
Carrier Name	Gallons	Cost	TimeSerie	s
American Airlines Inc.	277,280,454	474,298,088	201709	
Delta Air Lines Inc.	283,484,031	498,229,067	201709	
Southwest Airlines Co.	154,648,357	303,063,218	201709	
United Air Lines Inc.	276,441,284	478,835,918	201709	

As we noted above, we could easily now run a Traffic Report to identify the miles flown for these carriers for this time period to identify which has the lowest respective fuel costs.

The **User Guide** link from DOT Analyser for this report takes you to our website where there is a short video with the same worked example of how to create and extract data using a Form41 Financial report.

7 TRAFFIC SUMMARY REPORTS (FORM 41)

7.1 USING THE TRAFFIC SUMMARY REPORTS POWERTABLE

The **Traffic Summary Reports** in DOT Analyser summarises the T100 data which is also available elsewhere in DOT Analyser, in the T100 Traffic Reports. This data is available back to 1981 for US domestic traffic and from 1990 for international traffic if your subscription includes that. You may ask why this is useful given that this data can be accessed in the Traffic Reports section. The answer is partly because the data here is summarised, or aggregated, and so sensitive data that was not available to all users can now be shown in the summarised form.

For example, data reported for international flights is included here where it is not available in the T100 data for non-US carriers which are not permitted to access the international data in T100.

If we click through to the **Traffic Summary Reports** from the DOT Analyser Home screen this is what we see.





OAG DOT analyser	
Parameters	Traffic Summary Power Table
Traffic Summary Tables Dimension & Metrics Period Types of Flights	Traffic Summary Tables ⑦ Image: Traffic Summary Tables ⑦ Image: Traffic Summary Tables 0 T2 - Aircraft Traffic O T3 - Airport Traffic Dimension & Metrics ⑦
Carrier	Dimensions Clear Search Dimensions Clear Carrier Code > > > Passengers Carrier Region > > > > Capacity Carrier Group > > > > > > > > > > > > > > > > > > >
	Period Month From Dec 2017 To Dec 2017 To Image: Series Use Time Series Latest Available Data : Dec 2017 Types of Flights Image: Scheduled/Non-Scheduled Civil/Military
	Passenger (with Cargo) V All V All V

There are three Traffic Summary tables.

- The first is the T1-Airline Traffic report which provides monthly summaries of airline traffic contained in the T100 data by carrier and service class. Although the T1 report contains data on passenger numbers, there is no data about their routings, or where they got on or off their flights.
- The second is the T2 Aircraft Traffic report which provides quarterly traffic data by carrier, aircraft type, service class and region. Again, there is no routing data.
- The third report is the T3-Airport Traffic report which provides a quarterly summary of airport data.

We'll look at each of the reports in turn.

7.2 T1 AIRLINE TRAFFIC REPORT

Make sure the **T1 Airline Traffic** report option is selected at the top of the screen, above dimensions and metrics. You'll see there are 9 dimensions and 5 metrics, all relating to airlines and flight types. We're going to walk through running a report here to best demonstrate how this report works.



Traffic Summary Power 1	able	
Traffic Summary Tables		\bigcirc
T1 - Airline Traffic	O T2 - Aircraft Traffic	O T3 - Airport Traffic
Dimension & Metrics		0
Dimensions	Metrics	
Search Dimensions Clear Carrier Code Carrier Name Carrier Region Carrier Group Carrier Type Carrier Type Active/Inactive Carrier Type C	Search Metrics P Pas P Cap P Frei P Airc P Net	Clear sengers acity ght raft work Ratios
Period		0
Month V From Dec V 2017 V	To Dec V 2017 V	Latest Available Data : Dec 2017

7.3 T1 AIRLINE TRAFFIC - WORKED EXAMPLE

We'll take a look at Alaska Airlines and Virgin America through 2016 and 2017 to understand what their combined capacity and traffic was in the run up to the announcement that Alaska Airlines would be acquiring Virgin America, and through the followign months. For this query we just need to select carrier name in dimensions so we'll just click on carrier name.

For metrics, we want to see passengers and capacity. When we click on **Passengers**, we can see there are 5 options. The first, **Revenue Passengers** enplaned is simply the number of passengers who board flights. The other passenger options are variations on revenue passenger miles and non revenue passenger miles. **Revenue Passenger Miles** (RPMs) are another way used by the industry of measuring traffic. We'll use **Revenue Passenger Miles** as we want to look at RPMs.



Traffic Summary Powe	r Table	
Traffic Summary Tables	O T2 - Aircraft Traffic	O T3 - Airport Traffic
Dimension & Metrics		
Dimensions	Metrics	
Search Dimensions Clear Carrier Code Carrier Name Carrier Region Carrier Group Carrier Type Carrier Type Active/Inactive Scheduled/Non-Scheduled Pax/Cargo Civilian/Military		sengers Revenue Passengers Enplaned Revenue Passenger-Miles NonRevenue Passenger-Miles Revenue Passenger-Miles (Coach) Revenue Passenger-Miles (First Class) pacity Available Seat-Miles Available Seat-Miles (Coach) Available Seat-Miles (First Class) jeht

Similarly, there are 3 different options for **Capacity**, this time these are related to the cabin class. We'll choose the first one, **Available Seat Miles**.

Now we need to select the time period. We want to look at months, and see how the data changes over the months, so we'll choose month as the time period (this is the default) and the range from January 2016 to December 2017. As we want to see each month displayed, we'll make sure that Use Time Series is ticked, as otherwise, the data would be aggregated into a single figure.

Period (?)	1
Month v From Jan v 2016 v To Dec v 2017 v	I
✓ Use Time Series Latest Available Data : Dec 2017	I

The last selection we need for this worked example is the **Carriers**. We enter Virgin America and Alaska Airlines in the reporting carrier field, either using the airline two letter codes or starting to type in the full name.



Types of Flights			(?
Selected Flight Type	Scheduled/Non-Scheduled	Civil/Military	
Passenger (with Cargo) 🔻	All	All	
Carrier			(7
Reporting Carrier 🕒		Carrier Status	
Virgin America (VX), Alaska Airlines Add Ex	clusion	Both 🔻	
Carrier Region		Carrier Type	
*		All	
Carrier Group			
Y			

That's our query populated, and we can check the **Current Report Selections** to see that we've added all the required dimensions, metrics and parameters.

My Report					Data C	Overview
Cur	rent Report Selections					
Dimensions & Metri	iCS Remove					
Carrier Name 😫	Revenue Passenger-Miles 🙁	Available	Seat-Miles 🙁]		
American Airlines	42.05	60.72				
T1 - Airline Traffic Period Month: Jan2016 to Dec2 Time Series: Yes Types of Flights Flighttype: Passenger (v Scheduled/Non-Schedu Civil/Military: All Carrier Reporting Carrier Included: VX, AS	2017 with Cargo) led: All					
Clear All This opt	tion will clear all report select	ions.			Run	Export

And here's the data:



OAGDOT analyser				Reports Module:	s My OAG User	Guide Your Accoun
Traffic Summary Po	wer Table		Back to report	fields Export	Schedule	Save
	Showing 1 - 10 Of 48 Results	Number Of Rows Per Page 10	Filter Results	⊗ ⊉		
	Carrier Name÷	Revenue Passenger-Miles+	Available Seat-Miles =	TimeSeries +		_
	Alaska Airlines Inc.	2,491,124,000	3,128,356,000	201601		Ę
	Virgin America	834,435,000	1,080,222,000	201601		Repo
	Alaska Airlines Inc.	2,380,861,000	2,948,741,000	201602		Ň
	Virgin America	803,675,000	1,018,239,000	201602		9
	Alaska Airlines Inc.	2,845,342,000	3,278,260,000	201603		
	Virgin America	980,032,000	1,158,524,000	201603		
	Alaska Airlines Inc.	2,741,869,000	3,228,777,000	201604		
	Virgin America	993,852,000	1,182,536,000	201604		
	Alaska Airlines Inc.	2,803,088,000	3,283,946,000	201605		
	Virgin America	1,061,713,000	1,232,763,000	201605		
	48 result	(c) found, displaying result(s) from	1 to 10. Page 1/5	D		

If we're happy with what we've generated, then as before, we can export, schedule or save the data. If we wanted to change anything, we'd click on **Back to report fields** which takes us back to the report query screen. If at any time in the output page you want to check the parameters of the query, if you click on **My Report**, on the right of the screen, it opens up **the Current Report Selection** summary page. You can then either close it if you are happy, or you can click on **Back to report fields** and amend your query as necessary.

Current Report Selections			Current Report Selections	
Showing 1 - 10 Of 48 Results	Number Of Rows Per Page	0 • Q Filter Results	⊗ ⊉	Carrent report selections
Carrier Name‡	Revenue Passenger-Miles+	Available Seat-Miles +	TimeSeries =	Dimensions & Metrics
Alaska Airlines Inc.	2,491,124,000	3,128,356,000	201601	Carrier Name Revenue Passenger-Miles Available S
Virgin America	834,435,000	1,080,222,000	201601	American Airlines 42.05 60.72
Alaska Airlines Inc.	2,380,861,000	2,948,741,000	201602	Table
Virgin America	803,675,000	1,018,239,000	201602	T1 - Airline Traffic
Alaska Airlines Inc.	2,845,342,000	3,278,260,000	201603	Period Month: Jap2016 to Dec2017
Virgin America	980,032,000	1,158,524,000	201603	Time Series: Yes
Alaska Airlines Inc.	2,741,869,000	3,228,777,000	201604	Types of Flights
Virgin America	993,852,000	1,182,536,000	201604	Scheduled/Non-Scheduled: All
Alaska Airlines Inc.	2,803,088,000	3,283,946,000	201605	Carrier
Virgin America	1,061,713,000	1,232,763,000	201605	Reporting Carrier
	$\textcircled{\baselineskip}{0.5} \textcircled{\baselineskip}{0.5} \includegraphics{\baselineskip}{0.5} \includegraphics{\baselineskip}{0.5$		D	
48 resul	t(s) found, displaying result(s) fro	m 1 to 10. Page 1 / 5		
				Rock to separt fields
				Back to report neids

7.4 T2 AIRCRAFT TRAFFIC REPORT – WORLKED EXAMPLE



Now we'll take a look at the **T2 Airline Traffic** report. The dimensions and metrics for this report are different to the previous one. Full details of the Dimensions and Metrics for each table are outlined in the **APPENDIX**. You'll remember that we noted at the beginning of this section that this report provides quarterly summaries. There are some financial and network ratios in this report, so it could be useful if we were looking for some indicative cost figures to include in a business case for example.



To highlight what data this report can provide, we've included another short worked example. In this case, we want to look at the difference between crew costs per block hour for Frontier Airlines and Spirit Airlines by aircraft type.

First, we'll choose the dimensions we need. These are **Carrier Name** and **Equipment Type**. Next, we'll select the metrics we need. These are **Financial Ratios**, and from there, we'll choose **Crew Cost/ Block Hour**.







We'll leave the period as it is, as we want to see the most recently available data and then move down to the **Carrier** parameters. We'll add Frontier Airlines and Spirit Airlines in the Reporting Carrier field and that's all we need for this relatively simple query.

ly Report	Data Overview
Current Report Selections	
Dimensions & Metrics Remove	
Carrier Name 😫 Equipment Type 🙁 Crew Cost / Block Hour 🙁	
American Airlines DASSAULT 2000 55.47	
Table T2-Aircraft Traffic Period Quarter: Q3 2017 to Q3 2017 Time Series: Yes Types of Flights FlightType: Passenger (with Cargo) Scheduled/Non-Scheduled: All Carrier	
Included: F9, NK Clear All This option will clear all report selections.	In Export

Now we'll click on run and see how the data looks.



Showing 1 - 9 Of 9 Results	Number Of Rows Per Page 10	Filter Results	_ ⊗ ≙
Carrier Name +	Equipm ent Type‡	Crew Cost / Block Hour‡	TimeSeries
Frontier Airlines Inc.	A319	231.12	20173
Spirit Air Lines	A319	532.29	20173
Frontier Airlines Inc.	A320-100/200	221.94	20173
Spirit Air Lines	A320-100/200	535.83	20173
Frontier Airlines Inc.	A320-200N		20173
Frontier Airlines Inc.	A321	427.63	20173
Spirit Air Lines	A321	528.44	20173
Frontier Airlines Inc.	BREAKDOWN NOT AVAILABLE		20173
Spirit Air Lines	BREAKDOWN NOT AVAILABLE		20173
9 resu	lt(s) found, displaying result(s) fror	n 1 to 9. Page 1 / 1	ß

Straightaway you can see there are some significant differences between the two carriers on some of the aircraft types so in this case you might want to do some more analysis and look at some other measures.

7.5 T3 AIRPORT TRAFFIC REPORT – WORKED EXAMPLE

Now we'll take a look at the third report in the Traffic Summary reports. **T3 Airport Traffic** data is specific to an individual airport so you have to select an airport to run the query for. The screenshot below shows that there are numerous dimensions, and all of these are shown in the **APPENDIX** for each report.

We're going to show you how this report works by looking at the relative proportion of scheduled v's non-scheduled, or charter, traffic an airport handles.

We'll scroll down to the last option in dimensions which is **Scheduled/Non-scheduled** and choose that. Then for metrics we'll simply choose **Revenue Passengers Enplaned**. We'll choose the most recent time period, which is the 3rd Quarter of 2017 (remember this report is Quarterly).

We're going to look at Chicago O'Hare in this example so we can either enter the airport three letter code (ORD) in the Origin field, or start typing the airport name.



Traffic Summary Power Ta	ble	
Traffic Summary Tables		0
O T1 - Airline Traffic	O T2 - Aircraft Traffic	T3 - Airport Traffic
Dimension & Metrics		0
Dimensions	Metrics	
Equipment Range Engine Group Airport Cd Airport Cd Airport City Cd Airport City Cd Airport State Cd Airport State Cd Airport Country Cd Airport Country Cd Airport Country Name Scheduled/Non-Scheduled	 Search Metrics ✓ ↑ Revenue A ↑ Total Depa ↑ Total Freig ↑ Total Mail 	Clear assengers Enplaned ircraft Departures rtures Performed ht
Period Quarter From Q3 (Jul-Sep) 200	17 • To Q3 (Jul-Sep) • 2017 •	0
✓ Use Time Series		Latest Available Data : 3rd Qtr 2017
Types of Flights Scheduled/Non-Scheduled		0
Origin Origin © Airport © City © State © Country © Region DRD - Chicago O'Hare International Add Exclusion		0

We could also have chosen to specific a carrier here, or a group of carriers, but we'll leave the carrier option blank this time.

Origin	0
Origin 🕒	
ORD - Chicago O'Hare International	
Add Exclusion	
Carrier	0
Reporting Carrier 🕒	Carrier Status
Add Exclusion	Both 🔻
Carrier Region	Carrier Type
▼	All
Carrier Group	
	
Equipment	0
Search Equipment Clear	
Manufacturers	
Equipment Group	
All 🔻 🖙	





Once again we can check the Current Report Selections in My Report to make sure we've got everything there we need and then we can click to Run the report.

My Report			Data Overview
Current Report	Selections		
Dimensions & Metrics Remo	we		
Scheduled/Non-Scheduled	Revenue Passengers Enplaned	0	
S	24.51		
Table T3 - Airport Traffic			
Period Quarter: Q3 2017 to Q3 2017 Time Series: Yes			
Types of Flights Scheduled/Non-Scheduled: All			
Origin Include: ORD			
Clear All This option will cle	ar all report selections.		
			Run Export

Here are the results. We can see very quickly that Chicago O'Hare has a much larger share of scheduled traffic and that charter traffic is a very small element of traffic.

ihowing 1 - 2 Of 2 Results Number Of Ro	ws Per Page 10 V Q Filter Results	8
Scheduled/Non-Scheduled +	Revenue Passengers Enplaned +	TimeSeries
Ν	4,913	20173
S	9,632,559	20173
2 result(s) found, disp	laying result(s) from 1 to 2. Page 1 / 1	ſ





You can access a video walking through these examples by going to the **User Guide** section at the top right-hand corner of the screen in the DOT Analyser. You'll find some worked example video guides for each type of report. These match up with the worked examples we use here, so you can use this guide and the videos to complement each other if necessary.

8 APPENDIX - DIMENSIONS, METRICS & CATEGORIES

8.1 T100 SEGMENT TRAFFIC REPORTS – DIMENSIONS AND METRICS

T100 SEGMENT			
Dimensions		Metrics	
Carrier	Carrier Code Carrier Name Domicile Carrier Country Domicile Carrier Region	Passengers & Freight	Total Passengers Transported Passenger Load Factor Freight Transported (US Tons) Mail Transported (US Tons) Freight & Mail Transported (US Tons)
Origin & Destination	Dep Airport Code Dep Airport Name Dep City Code Dep City Name Dep State Code Dep State Name Dep State Name Dep Country Code Dep Country Name Dep Region Code Dep Region Name Arr Airport Code Arr Airport Name Arr City Code Arr City Name Arr State Code Arr State Code Arr Country Code Arr Country Code Arr Country Name Arr Region Code Arr Region Name O&D Pair (Airport) O&D Pair (City) O&D Pair (Country) O&D Pair (Country) O&D Pair (Region)	Capacity	Seats (Total) Available Seat Miles Available Seat Kilometers Available Ton Miles Available Ton Kilometers Payload Capacity
Schedule	Passenger/Cargo Int/Dom Flights Scheduled/Unscheduled Civil/Military Short/Long Haul (500 Mile intervals)	RPM/RTM	Revenue Passenger Miles Revenue Passenger Kilometers Revenue Ton Miles Revenue Ton Kilometers
Equipment	Equipment Type	Operations	Airborne (Minutes)



	Equipment Config DOT Equipment Group OAG Equipment Group		Average Block Time per Flight Completion Factor Percentage Airborne/Ramp Ramp to Ramp (Minutes) Departures Performed Departures Scheduled
Activity Type	Activity Type	Distance	Distance (NM) Distance (KM) Distance (SM)

8.2 T100 MARKET TRAFFIC REPORTS – DIMENSIONS AND METRICS

T100 MARKET			
Dimensions		Metrics	
Carrier	Carrier Code Carrier Name Domicile Carrier Country Domicile Carrier Region	Passengers & Freight	Passenger Local (Total) Freight Local (US Tons) Mail Local (US Tons) Freight & Mail Local (US Tons)
Origin & Destination	Dep Airport Code Dep Airport Name Dep City Code Dep City Name Dep State Code Dep State Name Dep State Name Dep Country Code Dep Country Name Dep Region Code Dep Region Name Arr Airport Code Arr Airport Name Arr City Code Arr City Name Arr State Code Arr State Name Arr State Name Arr Country Code Arr Country Name Arr Region Code Arr Region Code Arr Region Name O&D Pair (Airport) O&D Pair (City) O&D Pair (Country) O&D Pair (Country) O&D Pair (Country)		
Schedule Activity Type	Passenger/Cargo Int/Dom Flights Scheduled/Unscheduled Civil/Military Short/Long Haul (500 Mile intervals)		



8.3 **O&D TRAFFIC REPORTS (DETAILED) – DIMENSIONS AND METRICS**

O&D TRAFFIC REPORTS (DETAILED)			
Dimensions		Metrics	
Carrier	Reporting Carrier Code Reporting Carrier Name Operating Carrier Code by Coupon Operating Carrier Name by Coupon Ticketed Carrier Code by Coupon Ticketed Carrier Name by Coupon Participating Operating Carriers Code Participating Ticketed Carriers Code	Ticketed Revenue	Number of Passengers (Adjusted) Number of Passengers (Unadjusted) Total Revenue (US Dollars) (Adjusted) Total Revenue (US Dollars) (Unadjusted) Average Fare (US Dollars) Average Yield (US Cents) Individual Ticket Value (US Dollars) RPMs (Adjusted) RPMs (Unadjusted) RPKs (Unadjusted) RPKs (Unadjusted) Number of Records
Origin & Destination	Dep Airport Code Dep Airport Name Dep City Code Dep City Name Dep State Code Dep State Name Dep State Name Dep Country Code Dep Country Name Dep Region Code Dep Region Name Dep World Area Code Connecting Airport Code Connecting Airport Name Connecting City Code Connecting State Code Connecting State Code Connecting State Name Connecting Country Code Connecting Region Code Connecting Region Name Arr Airport Code Arr Airport Name Arr City Code Arr State Code Arr State Code Arr State Code Arr State Code Arr Country Name Arr Country Name Arr Country Code Arr Country Name Arr Country Name Arr State Code Arr Country Name Arr Region Code Arr Region Name Arr Region Name Arr World Area Code O&D Pair (Airport) O&D Pair (City) O&D Pair (City)	Distance	GCD (KM) GCD (SM) Itinerary Circuit Distance (KM) Itinerary Circuit Distance (NM) Itinerary Circuit Distance (SM)
	O&D Pair (Airport) O&D Pair (City) O&D Pair (State) O&D Pair (Country) O&D Pair (Region) Passenger Itinerary		



	Trip Qualifier	
	US Gateway Code and Name	
	Int/Dom	
Ticketed	Individual Ticket Value (US Dollars)	
Revenue		
Distance	Itinerary Circuit Distance (KM)	
	Itinerary Circuit Distance (NM)	
	Itinerary Circuit Distance (SM)	
Coupons	Coupon Count	
	Fares by Coupon	
	Frequent Flyer Indicator	
	Operating Carrier Coupon Types	
	Ticketed Carrier Coupon Types	



8.4 **O&D TRAFFIC REPORTS (SUMMARY) – DIMENSIONS AND METRICS**

O&D TRAFFIC REPORTS (SUMMARY)			
Dimensions		Metrics	
Carrier	Carrier Code Carrier Name	Ticketed Revenue	Number of Passengers (Adjusted) Number of Passengers (Unadjusted) Total Revenue (US Dollars) (Adjusted) Total Revenue (US Dollars) (Unadjusted) Average Fare (US Dollars) Average Yield (US Cents) RPMs (Adjusted) RPMs (Unadjusted) RPKs (Adjusted) RPKs (Unadjusted) Number of Records
Origin & Destination	Dep Airport Code Dep Airport Name Dep City Code Dep City Name Dep State Code Dep State Code Dep State Name Dep Country Code Dep Country Name Dep Region Code Dep Region Name Arr Airport Code Arr Airport Code Arr City Code Arr City Code Arr City Name Arr State Code Arr State Code Arr State Name Arr Country Code Arr Country Name Arr Region Code Arr Region Code Arr Region Name O&D Pair (Airport) O&D Pair (City) O&D Pair (Country) O&D Pair (Region) Int/Dom		



8.5 FINANCE REPORTS (FORM 41) - DIMENSIONS, METRICS & CATEGORIES

LARGE > \$20m Airlines			
B1 BALANCE SHEET			
Dimensions	Metrics	Categories	
Carrier Code	Current Assets	Accounts Receivable	
Carrier Name		Less: Allowance for Uncollectible Accounts	
Carrier Group		Cash	
Carrier Type		Notes and Accounts Receivable – Net	
Active/Inactive		Notes Receivable	
		Other Current Assets	
		Prepaid Items	
		Short-term Investments	
		Spare Parts and Supplies – Net	
		Total Current Assets	
	Investments and Special	Investment in Associated Companies	
	Funds	Other Investments and Receivables	
		Special Funds	
		Total Investments and Special Funds	
	Operating Property and	Construction Work in Progress	
	Equipment	Land	
		Leased Property Under Capital Leases	
		Leased Property under Capital Leases: Accumulated Amortization	
		Less: Allowances for Depreciation	
		Investment in Associated Companies	
		Equipment Purchase Deposits & Advance Payments	
		Flight Equipment	
		Ground Property and Equipment	
		Property and Equipment – Net	
		Total Operating Property and Equipment	
	NonOperating Property and	Less: Allowance for Uncollectible Accounts	
	Equipment	Non-Operating Property and Equipment	
		Total Non-operating Property and Equipment	
	Other Assets	Long-Term Prepayments	
		Other Assets and Deferred Charges	
		Total Other Assets	
		Unamortized Development and Pre-operating Costs	
	Total Assets	Total Assets	
	Current Liabilities	Accounts Payable: Others	
		Accrued Interest	
		Accrued Salaries, Wages	
		Accrued laxes	
		Accrued Vacation Liability	
		Air Trattic Liability	
		Current Maturities of Long-term Debt	
		Current Obligations Under Capital Leases	
		Dividends Declared	
		Notes Payable: Banks	
		Notes Payable: Uthers	
		Other Current Liabilities	





	Total Current Liabilities
	Trade Accounts Payable
NonCurrent Liabilities	Advances from Associated Companies
	Long-Term debt
	Non-Current Obligations Under Capital Leases
	Other Non-current Liabilities
	Perision Liability Total Non-current Liabilities
Deferred Credits	Deferred Income Taxes
Deferred creats	Deferred Investment Tax Credits
	Other Deferred Credits
	Total Deferred Credits
Stockholders' Equity	Additional Capital Invested
	Capital Stock: Common Shares
	Capital Stock: Preferred Shares
	Capital Stock: Common Shares Issued
	Net Stockholders' Equity
	Capital Stock: Preferred Shares Issued
	Retained Earnings
	Capital Stock: Subscribed and Unissued
	Cash
	Total Capital Stock
	Total Paid-in Capital
	Loss: Trassury Stock Shares
Total Liabilities and	Total Liabilities and Stockholders' Equity
Stockholders' Equity	Total Elabilities and Stockholders' Equity
Financial Ratios	Flight Equipment/Total Assets
	Flight Equipment/Total Debt
	(Depreciation+Amortization)/Net Fixed Assets
	Cash and Related/Current Assets
	Current Assets/Current Liabilities
	Debt/Equity
	Net Fixed Assets/Total Assets
	Return on Assets – ROA – (Earnings/Total Assets
	Return on Assets Before Taxes – ROABT – (EBT/Total Assets)
	Return on Equity Before Taxes – ROEBT – (EBT/Equity)
	Total Liabilities (System-Wide)
	Earnings/ (Total Assets, Depreciation and Amortization Allowance Earnings Refere Tax / (Total Assets, Depreciation and
	carrings before rax / (rotal Assets, Depreciation and
	Transport revenue/Elight Equipment
	Quick Assets/Current Liabilities

LARGE > \$20m Airlines P1.2 Profit & Loss			
Dimensions	Metrics	Categories	
Carrier Code	Net Income	Net Income	
Carrier Name	Operating profit & Loss	Operating Profit of Loss	
Carrier Group	Operating revenues	Operating Revenues: Passenger – First Class	
Carrier Type		Operating Revenues: Passenger - Coach	



Carrier region		Operating Revenues: Transport Revenues-Passenger
Active/Inactive		Operating Revenues: Mail
		Operating Revenues: Property-Freight
		Operating Revenues: Property Freight
		Operating Revenues: Property Excess Fussengers
		Operating Revenues: Charter Descenger
		Operating Revenues: Charter-Passenger
		Operating Revenues: Charter-Property
		Operating Revenues: Reservation Cancellation
		Operating Revenues: Miscellaneous Operating
		Operating Revenues: Public Service Revenues
		Operating Revenues: Transport-Related Revenues
		Total Operating revenues
	Operating Expenses	Operating Expenses: Flying Operations
		Operating Expenses: Maintenance
		Operating Expenses: Passenger Service
		Operating Expenses: Aircraft and Traffic Service
		Operating Expenses: Promotion and Sales
		Operating Expenses: Depreciation and Amortization
		Transnort-related Expenses
	NonOperating Income and	Interest on Long-Term Debt and Capital Lease
	Expenses	Other Interest Expenses
	2.10 011000	Foreign Exchange Gains and Losses
		Nononerating Income and Expenses
		Capital Gains and Lossos Operating Property
		Capital Gains and Losses - Operating Property
		Capital Gallis and Losses – Other Other NenOperating Net Income and Expanses
	Income Defensione Terr	
	Income Before Income Tax	Income Before Income Taxes
	Income Taxes for Current	Income Taxes for Current Period
	Period	Income Before Discontinued Operations, Extraordinary Items and
		Account Changes
	Discontinued Operations	Discontinued Operations
	and Extraordinary Items	Extraordinary Items
		Income Taxes Applicable to Extraordinary Items
	Accounting Changes	Accounting Changes
	Financial Ratios	Passenger Revenues (Scheduled and Charter)
		Net Interest and Income
		Interest, Capital Gains and Exchange Income/Interest and Income
		Capital Gains and Losses
		Return on Revenue Before taxes – RORBT – (EBT/Operating
		Revenue)
		Return on Revenue – ROR – (Earning/Operating revenue)
		Operating Profit/Operating Revenue (EBIT/Operating Revenue)
		(Scheduled Passenger Revenue+Subsidy)/Operating Revenue
		(Charter Passenger and Freight revenue)/Operating Revenue
		Operating Expense/Available Seat Miles (Cents/ASM) (CASM)
		Operating Expense/Block Hour (Cents/Block Hour)
		Operating Expense/Revenue Passenger Miles (Cents/RPM)
		(Onerating Expense+Nononerating Income and
		Expense)/Available Seat Miles (Cents/ASM) (CASM)
		(Total Operating Expanse-Fuel and Oil Expanse)/Available Cost
		Miles (Cents/ASM) (CASM)
		Operating Expanse (Neperating Income and Expanse Evel
		Cynance) (Available Cost Miles (Cente (ACMA) (CACMA)
		expense // Available Seat Milles (Cents/ASM) (CASM)
		International First Class Passenger Yield (Cents/RPM)
		International Coach Passenger Yield (Cents/RPM)



	Scheduled Passenger Yield (Cents/RPM) Nonscheduled passenger Yield (Cents/RPM) Total Mail, Freight and Excess baggage Yield (Cents/RTM) Total Mail and Freight Yield (Cents/RTM) Flying Operations Expense: Other Aircraft Maintenance Expense: Total General Service and Administrative Expense Aircraft Operating Expense/Operating revenue Crew Cost/Transportation Revenue
Network Ratios	Scheduled and Charter Passenger revenue/Revenue Passenger Miles (Cents/RPM) (Total Passenger Yield) Operating revenue/Block Hour (Cents/Block Hour) Passenger revenue/Available Seat Miles (Cents/ASM) (Total Passenger RASM) Break Even Load Factor

LARGE > \$20m Airlines			
P5.1 Aircraft Operating Expenses (Carriers with Op Rev, \$100M)			
Dimensions	Metrics	Categories	
Carrier Code Carrier Name Carrier Group Carrier Type Active/Inactive Equipment Group Equipment Type Equipment Flight Type Engine Group Equipment Range	Flying Operations – Less Rentals	Flying Operations: Pilot and Copilot Flying Operations: Aircraft Fuel and Oil Flying Operations: Other Total Flying Operations (Less Rentals)	
· · · •	Maintenance	Maintenance – Flight Equipment	
	Depreciation and Rental	Depreciation & Rental – Flight Equipment	
	Direct Expense (Aircraft Operating Expense)	Total Direct Expenses	
	Indirect Expense	Flight Attendant Expense Traffic Related Expense Departure Related Expense (station) Capacity Related Expense Total Indirect Expense	
	Total Operating Expense	Total Operating Expense	

LARGE > \$20m Airlines			
P5.2 Aircraft Operating Expenses (Carriers with Op. Rev>\$100M)			
Dimensions	Metrics	Categories	



Carrier Code	Flying Operations	Aircraft Fuels
Carrier Name		Aircraft Interchange Charges (Flying Operations)
Carrier Group		Aircraft Oils
Carrier Type		Employee Benefits and Pensions
Active/Inactive		Injuries, Loss and Damage
Equipment Group		Insurance Purchased-General
Equipment Type		Other Expenses
Equipment Flight		Other Flight Personnel
Type		Other supplies
Engine Group		Personnel Expenses
Engine Group		Pilot s and Conilots
Equipment nunge		Professional and Technical Fees and Evnenses
		Pontals
		Taylor Other than Davrall
		Taxes – Other than Payron
		Taxes-Payroll
		I otal Flying Operations
		Trainees and Instructors
	Diroct Maintonanco Elight	Aircraft Interchange Charges (Maintenance Elight Equipment)
	Equipment	Aircraft Engines Denairs
	Lquipment	Aircrait Elignies Repairs
		Airframe Overnauls Deferred (Credit)
		Airframe and Other Flight Equipment Repairs
		Airworthiness Allowance Provisions – Aircraft Engines
		Airworthiness Allowance Provision – airframes
		Aircraft Engine Overhauls Deferred (Credit)
		Labor – Aircraft Engines
		Labor – Airframes
		Maintenance Materials – Aircraft Engines
		Maintenance Materials – Airframes
		Total Direct Maintenance – Flight Equipment
	Applied Maintenance	Applied Maintenance Burden – Flight Equipment
	Burden – Flight Equipment	Total Flight Equipment Maintenance
	Net Obsolescence and	Net Obsolescence and Deterioration – Expendable Parts
	Deterioration – Expendable	·
	Parts	
	Depreciation – Flight	Depreciation – Aircraft Engines
	Equipment	Depreciation – Aircraft Engine Parts
		Depreciation – Airframe Parts
		Depreciation – Airframes
		Total Flight Equipment Depreciation
		Depreciation – Other Flight Equipment
	Amortization Elight	Amortization-Capital Leases – Elight Equipment
	Equipment	
	Expense of Interchange Aircraft	Flying Operations (Expense of Interchange Aircraft)
	Aircraft Operating Expense	Total Aircraft Operating Expenses
	(Direct Operating Expense)	
	Other Depreciation and	Amortization – Developmental and Preoperating Expenses
	Amortization (Non—Flight	Amortization – Capital Leases – Other Property and Equipment
	Equipment)	Amortization – Other Intangibles
		Depreciation – General Ground Property
		Depreciation – Maintenance Equipment and Hangars
	Financial Metrics	Labor – Other Flight Equipment
		Maintenance (Expense of Interchange Aircraft)
		(Total Labor+Outside Labor+Materials)/Airborne Hour (Aircraft
		Maintenance)
		(Total Maintenance-Airworthiness Allowance and Overhauls



	Deferred)/Airborne Hour
	Airframe Labor/Airborne Hour
	Airframe Maintenance Expense/Block Hour
	Airframe Maintenance Materials/Airborne Hour
	Amortization: Capital Leases
	Applied Maintenance Burden/Airborne Hour
	Crew Cost/Available Seat Mile (Cents/ASM) (CASM)
	Crew Cost/Block Hour
	Depreciation and Amortization: Aircraft and Leases
	Employee Benefits and pensions Cost/Block Hour (Cents/Block
	Hour)
	Engine Labor/Airborne Hour
	Engine Maintenance Expense/Block Hour
	Engine Maintenance Materials/Airborne Hour
	Engine Outside Labor/Airborne Hour
	Fixed Cost/Departure
	Flying Operations Expense: Labor
	Fuel Cost (Price per Gallon)
	Fuel Cost/Block Hour
	Fuel Cost/Mile
	Fuels Cost/Available Seat Mile (Cents/ASM) (CASM)
	Maintenance Cost/Available Seat Mile (Cents/ASM) (CASM)
	Operating Cost/Departure
	Operating Cost/Mile
	Other Cost/Available Seat Mile (Cents/ASM) (CASM)
	Payroll Taxes Cost /Block Hour (Cents/Block Hour)
	Personnel Expenses/Block Hour (Cents/Block Hour)
	Total Cost/Available Seat Mile (Cents/ASM) (CASM)
	Total Labor/Airborne Hour
	Total Maintenance Expense Excluding Labor/Block Hour
	Total Maintenance Materials/Airborne Hour
	Trainees and Instructors Cost/Block Hour (Cents/Block Hour)
	Pilots and Copilots Cost/Block Hour (Cents/Block Hour)

LARGE > \$20m Airlines P6 Operating Expenses (Carriers with Op Rev > \$20M)		
Dimensions	Metrics	Categories
Carrier Code Carrier Name Carrier Group Carrier Type Carrier Region Active/Inactive	Salaries	Salaries: General Management Personnel Salaries: Flight Personnel Salaries: Maintenance Labour Salaries: Air Traffic and Handling Personnel Salaries: Other Personnel Total Salaries
	Related Fringe Benefits	Related Fringe Benefits: Personnel Expense Related Fringe Benefits: Employee Benefits and Pensions Related Fringe Benefits: Payroll Taxes Total Related Fringe Benefits
	Total Salaries and Related Fringe Benefits	Total Salaries and Related Fringe Benefits



Materials Purchased	Materials Purchased: Aircraft Fuel and Oil
	Materials Purchased: Maintenance Material
	Materials Purchased: Passenger Food
	Materials Purchased: Other Materials
	Total Materials Purchased
Services Purchased	Services Purchased: Advertising and Other
	Services Purchased: Communications
	Services Purchased: Insurance
	Services Purchased: Outside Flight Equip. Maint.
	Services Purchased: Traffic Commissions Passenger
	Services Purchased: Traffic Commissions Cargo
	Services Purchased: Other Services
	Total Services
Landing Fees	Landing Fees
Rentals	Rentals
Depreciation and	Depreciation
Amortization	Amortization
Other Operating Expenses	Other Operating Expenses
Transport Related Expense	Transport Related Expense
Total Operating Expense	Total Operating Expenses
Financial Ratios	Aircraft Maintenance Expense: Other
	Operations Expense: Depreciation and Amortization
	Operations Expense: Materials
	Operations Expense: Miscellaneous

LARGE > \$20m Airlines			
P7 Operating Exp	P7 Operating Expenses (Carriers with Op Rev > \$1BN)		
Dimensions	Metrics	Categories	
Carrier Code Carrier Name	Direct Operating Expense – Aircraft Operating Expense	Total Direct Operating Costs	
Carrier Group Carrier Type Carrier Region Active/Inactive	Indirect Operating Expense – Passenger Service Expense	Passenger Service Expense: Flight Attendant Expense Passenger Service Expense: Food Expense Passenger Service Expense: Other In-flight Expense Total Passenger Service Expense	
	Indirect Operating Expense – Aircraft Servicing Expense	Aircraft Servicing Expense: Line Servicing Expense Aircraft Servicing Expense: Control Expense Aircraft Servicing Expense: Landing Fee Total Aircraft Servicing Expense	
	Indirect Operating Expense – Traffic Servicing Expense	Traffic Servicing Expense: Directly Assignable to Passenger Traffic Servicing Expense: Directly Assignable to Baggage and Cargo Traffic Servicing Expense: Not Directly Assignable Total Traffic Servicing Expense	
	Indirect Operating Expense – Reservation and Sales Expense	Reservation and Sales Expense: Directly Assignable to Passenger Reservation and Sales Expense: Directly Assignable to Baggage and Cargo Reservation and Sales Expense: Not Directly Assignable Total Reservation and Sales Expense	
	Indirect Operating Expense – Advertising and Publicity	Advertising and Publicity Expense: Directly Assignable to Passenger	



Expense	Advertising and Publicity Expense Directly Assignable to Cargo
	Advertising and Publicity Expense: Institutional Advertising
	Expense
	Total Advertising and Publicity Expense
Indirect Operating Expense	Depreciation Expense – Maintenance Equipment
 Depreciation Expense – 	
Maintenance Equipment	
Indirect Operating Expense	Amortization – Other than Flight Equipment
– Amortization – Other than	
Flight Equipment	
Transport Related Expense	Transport Related Expense
Total Operating Expense	Total Operating Expenses
Other	Maintenance – Ground Property and Equipment
	Depreciation – Ground Property and Equipment
	Total Maintenance and Depreciation Maintenance–Ground
	Property and Equipment
	Total Servicing, Sales and General Operating Expenses
Financial Ratios	Aircraft Maintenance Expense: Other
	Aircraft Maintenance Expense: Total
	General Service and Administrative Expense
Indirect Operating Expense	General and Administrative Expense
– General and	·
Administrative Expense	

LARGE > \$20m Airlines		
P10 Detailed Mc	onthly Employee St	ats
Dimensions	Metrics	Categories
Carrier Code Carrier Name Carrier Group Carrier Type Carrier Region Active/Inactive	Employees	General Management PersonnelPilots and CopilotsOther Flight PersonnelFlying OperationsPassengers/General Services and AdministrationMaintenance LaborAircraft and Traffic Handling PersonnelAircraft Control personnelPassenger Handling PersonnelCargo Handling PersonnelTrainees and InstructorsRecord keeping and Statistical PersonnelTraffic SolicitorsOther PersonnelTransport related EmployeesTotal EmployeesGeneral Services and Administration



LARGE > \$20m Airlines P1(a) Annual Employee Totals		
Dimensions	Metrics	Categories
Carrier Code Carrier Name Carrier Group Carrier Type Active/Inactive	Employees	Number of Full-Time Employees Number of Part-Time Employees Total Employees

LARGE > \$20m A P12(a) Fuel	irlines	
Dimensions	Metrics	Categories
Carrier Code Carrier Name Carrier Group Carrier Type Carrier Region Active/Inactive Schedule Type Business Type	Fuel	Gallons Cost

SMALL/MEDIU	SMALL/MEDIUM < \$20m Airlines		
B1.1 Balance Sl	neet		
Dimensions	Metrics	Categories	
Carrier Code	Current Assets	Cash and Equivalents	
Carrier Name		Notes and Accounts Receivable-Net	
Carrier Group		Other Current Assets	
Carrier Type		Total Current Assets	
Active/Inactive	Operating Property and	Less: Accumulated Amortization	
	Equipment	Less: Accumulated Depreciation	
		Owned Property and Equipment	
		Property and Equipment Obtained Under Capital Leases	
		Total Property and Equipment	
	Other Assets	Other Assets	
	Total Assets	Total Assets	
	Current Liabilities	Accrued Taxes	
		Notes and Accounts Payable	



		Other Current Liabilities Total Current Liabilities
NonCurr	ent Liabilities	Long Term Debt Other Liabilities
Deferred	l Credits	Deferred Credits
Stockho	ders' Equity	Capital Stock: Common Shares Outstanding Capital Stock: Preferred Shares Outstanding Less: Treasury Stock Net Stockholders' Equity Other Paid-In Capital Retained Earnings Total Stockholders' Equity
Total Lia Stockho	bilities and ders' Equity	Total Liabilities and Stockholders' Equity

SMALL/MEDIUM < \$20m Airlines		
P1.1 Profit and Loss		
Dimensions	Metrics	Categories
Carrier Code	Net Income, Profit or Loss	Net Income
Carrier Name	Operating Profit or Loss	Operating Profit
Carrier Group	Operating Revenues	Scheduled Service Passenger Transport Revenue
Carrier Type		Scheduled Service Other Transport Revenue
Active/Inactive		Non-scheduled Service Transport Revenue
		Public Service Transport-Related Operating Revenue
		Other Transport-Related Operating Revenue
		Total Operating Revenue
	Operating Expenses	Flying Operations Operating Expense
		Maintenance Operating Expense
		General and Administrative Operating Expense
		Owned Property and Equipment Depreciation and Amortization
		Leased Property and Equipment Depreciation and Amortization
		Total Operating Expense
	NonOperating Income and	NonOperating Interest Expense
	Expenditure	Other Non-Operating (Net) Income and Expense
	Income Taxes for Current Period	Income Tax
	Discontinued Ops.,	Discontinued Ops., Extraordinary Items, or Accounting Changes
	Extraordinary Items, or	
	Accounting Changes	



SMALL/MEDIUM < \$20m Airlines		
P5.1 Aircraft Operating Expenses (Carriers with Op. Rev <\$20M)		
Dimensions	Metrics	Categories
Carrier Code Carrier Name Carrier Group Carrier Type	Flying Operations – Less Rentals	Flying Operations: Pilot and Copilot Flying Operations: Aircraft Fuel and Oil Flying Operations: Other Total Flying Operations (less Rentals
Active/Inactive Equipment Group Equipment Type Equipment Flight Type Engine Group Equipment Range	Maintenance	Maintenance – Flight Equipment
	Depreciation and Rental Direct Expense (Aircraft Operating Expense)	Depreciation and Rental – Flight Equipment Total Direct Expenses
	Indirect Expense	Flight Attendant Expense Traffic Related Expense Departure Related Expense (Station) Capacity Related Expense Total Direct Expense
	Total Operating Expense	Total Operating Expense

SMALL/MEDIUM <\$20m Airlines P1(a) Annual Employee Totals		
Dimensions	Metrics	Categories
Carrier Code Carrier Name Carrier Group Carrier Type Active/Inactive	Employees	Number of Full-Time Employees Number of Part-Time Employees Total Employees



8.6 TRAFFIC SUMMARY REPORTS (FORM 41) – DIMENSIONS AND METRICS

TRAFFIC SUMMARY TABLES – T1 AIRLINE TRAFFIC		
Dimensions	Metrics	Categories
Carrier Code	Passengers	Revenue Passengers Enplaned
Carrier Name		Revenue Passenger-Miles
Carrier Region		NonRevenue Passenger-Miles
Carrier Group		Revenue Passenger-Miles (Coach)
Carrier Type		Revenue passenger-Miles (First Class)
Active/Inactive	Capacity	Available Seat Miles
Scheduled/Non-		Available Seat-Miles (Coach)
Scheduled		Available Seat-Miles (First Class)
Pax/Cargo	Freight	Revenue Ton-Miles: Passenger
Civilian/Military		Revenue Ton-Miles: US Mail Priority
		Revenue Ton-Miles: Foreign Mail
		Revenue Ton-Miles: Freight
		NonRevenue Ton-Miles:
		Available Ton-Miles:
	Aircraft	Revenue Aircraft Miles Scheduled Completed
		Revenue Aircraft Miles Flown
		Revenue Aircraft Departures Performed
		Revenue Aircraft Hours (Airborne)
		Revenue Aircraft Miles Scheduled
		Total Aircraft Hours (Airborne)
	Network Ratios	Average Number of Seats per Aircraft
		Average cargo Ton Miles per Departure
		Average Departures/Day (Scheduled)
		Average Passenger Trip Length (Miles)
		Average Passengers/Departure (Scheduled)
		Average Stage Length (Miles)
		Load Factor (Ton Miles)
		Miles Flown/Miles Scheduled
		Total Departures
		Average Revenue Passenger Miles/Day (Scheduled)
		Total Revenue Passengers Enplaned
		Mail Revenue Ton Miles (Scheduled)
		Total Mail and Freight Revenue Ton Miles (Scheduled)

TRAFFIC SUMMARY TABLES – T2 AIRCRAFT TRAFFIC		
Dimensions	Metrics	Categories
Carrier Code	Passengers	Revenue Passenger-Miles
Carrier Name	Capacity	Available Ion-Miles
Carrier Region		Available Seat Miles
Carrier Group	Freight	Total Revenue Ton-Miles
Carrier Type		Total Mail Revenue Ton-Miles
Active/Inactive		Total Freight Revenue Ton-Miles



Aircraft	Aircraft	Revenue Aircraft Departures Performed
Configuration		Revenue Aircraft Miles Flown
Equipment Type		Total NonRevenue Aircraft Hours (Airborne)
Equipment Group		Total Aircraft Hours (Airborne)
		Total Aircraft Days Assigned – Carrier Equipment
		Total Aircraft Days Assigned –Carrier Routes
		Total Aircraft Block Hours (Ramp-to-Ramp)
		Total Aircraft Fuels Issued (Gallons)
		Total Revenue Aircraft Hours (Airborne)
	Financial Ratios	Crew Cost/Available Seat Mile (Cents/ASM) (CASM)
		Crew Cost/Block Hour
		Pilots and Copilots cost/Block Hour (Cents/Block Hour)
		Employee Benefits and Pensions Cost/Block Hour (Cents/Block
		Hour)
		Payroll Taxes Cost/Block Hour (Cents/Block Hour)
		Personnel Expenses/Block Hour (Cents/Block Hour)
		Trainees and Instructors Cost/Block Hour (Cents/Block Hour)
		(Total Maintenance-Airworthiness Allowance and Overhauls
		Deferred)/ Airborne Hour
		Airframe Labor/Airborne Hour
		Airframe Maintenance/Block Hour
		Aircraft Maintenance Materials/Airborne Hour
		Applied Maintenance Burden/Airborne Hour
		Engine Labor/Airborne Hour
		Engine Maintenance Expense/Block Hour
		Engine Outside Labor/Airborne Hour
		Maintenance Cost/Available Seat Mile (Cents/ASM) (CASM)
		Total Labor/Airborne Hour
		Total Maintenance Expense Excluding Labor/Block Hour
		I otal Maintenance Materials/Airborne Hour
		(Total Labor + Outside Labor + Materials) /Airborne Hour (Aircraft
		Maintenance)
		Fuel Cost (Price per Gallon)
		Fuel Cost/Block Hour
		Fuel Cost/Mile
		Puels Cost/Available Seat Mile (Cellis/ASIVI) (CASIVI)
		Operating Cost/Departure
		Other Cost/Mile Seat Mile (Cents/ASM) (CASM)
		Total Cost/Available Seat Mile (Cents/ASM) (CASM)
		Fixed Cost/Departure
	Network Batios	Flight Crew: Average Trin Distance
	Network natios	Flight Crew: Average Utilization (Block Hours/Trin)
		Aircraft Utilization (Block Hours per Day)
		Aircraft Utilization (Revenue Block Hours) (Scheduled +
		NonScheduled)
		Average Daily Total Airborne Hours per Aircraft (Aircraft
		Utilization)
		Average Number of Aircraft in Service
		Average Number of Departures/Aircraft (Carrier routes)
		Average Number of Seats /Aircraft (Scheduled + Non Scheduled)
		Average Fuel/Available Seat Mile
		Average Fuel/Mile
		Average Trip Fuel
		Fuel Efficiency (Available Seat Mile)
		Fuel Issued per Block Hour
		Gallons/Departure
		Gallons/Total Block Hour



	Airborne Hours/Block Hours
	Available Seat Miles/Gallon
	Average Air speed
	Average Block Hours/Departure
	Average Block to Block Time per Departure
	Average Flight Hour Stage
	Average Total Seat Count
	Block Hour/Flight Hour Ratio (Scheduled + non Scheduled)
	Block Speed (MPH)
	Departures/Day (Scheduled)
	Effective Fleet Size (Carrier Routes)
	Load Factor (Nonscheduled)
	Load Factor (Scheduled)
	Quarterly Work Rate Available Seat Miles/Yr-m
	Scheduled Miles to Total Miles Ratio
	Seat Departures: Total (Scheduled + Nonscheduled)
	Segment Length (Miles) (Scheduled)
	Stage Length (Scheduled)
	Total Available Seat Miles (ASMs)
	Total Available Seat Miles/Block Hour
	Total Available Ton Miles (ATMs)
	Total Available Ton Miles/Block Hour
	Total Block Hours
	Trips/Day
	Nonscheduled Revenue Aircraft Miles Flown
	Revenue Block Hours (Derived)
	Revenue Flight Hour to Total Flight Hour Ratio
	Revenue Services Block Speed
	Average Daily Revenue Airborne Hours per Aircraft (Aircraft
	Utilization)
	Average Daily Revenue Block Hours per Aircraft (Aircraft
	Utilization)
	Revenue Passenger Miles/Fuel Gallon
	Passenger Load Factor
	Total Revenue Passenger Miles (RPMs)
	Total Revenue Passenger Miles/Block Hour
	Total Revenue Ton Miles (RTMs)
	Total Revenue Ton Miles/Block Hour

TRAFFIC SUMMARY TABLES – T3 AIRPORT TRAFFIC		
Dimensions	Metrics	
Carrier Code Carrier Name	Revenue Passengers Enplaned	
Carrier Region	Revenue Aircraft Departures	
Carrier Group	Total Departures Performed	
Carrier Type	Total Freight	
Active/Inactive	Total Mail	
Aircraft		
Configuration Equipment Type		



Equipment Group	
Engine Group	
Airport Cd	
Airport Name	
Airport City Cd	
Airport City Name	
Airport State Cd	
Airport State Name	
Airport Country Cd	
Airport Country	
Name	
Scheduled/Non-	
Scheduled	