

**OAG<sup>®</sup>**  
**SCHEDULES**  
**ANALYSER**  
**USER GUIDE**

# CONTENTS

<b>1</b>	<b>Introduction</b>	<b>3</b>
1.1	About the Tool	3
1.2	Key Features	4
<b>2</b>	<b>Getting Started</b>	<b>5</b>
<b>3</b>	<b>Reports</b>	<b>6</b>
<b>3.1</b>	<b>Schedules Capacity Report</b>	<b>6</b>
3.1.1	Parameters	7
3.1.2	Report Outputs	13
3.1.3	Saving Reports & Scheduling	16
3.1.4	Exporting	16
<b>3.2</b>	<b>Schedules Bank Structure Report</b>	<b>18</b>
3.2.1	Report Outputs	21
<b>3.3</b>	<b>Schedules Changes Report</b>	<b>23</b>
3.3.1	Schedules Changes Report	23
<b>3.4</b>	<b>Power Table Report</b>	<b>26</b>
<b>3.5</b>	<b>Top X Report</b>	<b>28</b>
<b>4</b>	<b>My OAG</b>	<b>31</b>
4.1	Saving Reports	31
4.2	Scheduling Reports	32
4.3	Customising Data	33
4.4	User Preferences	34
<b>5</b>	<b>Reference</b>	<b>35</b>
5.1	Airport Codes	35
5.2	Airline Codes	36
5.3	Aircraft Codes	36
5.4	Alliance Codes	37
5.5	Seasons	37
5.6	Country/Region Codes	37
5.7	MCT – Minimum Connection Times	38

# 1. Introduction

## 1.1 About the Tool

Using OAG Schedules Data, Schedules Analyser provides you with the tools to analyze and identify trends, spot commercial opportunities, and monitor competitor activity.

[Modules](#) | [My OAG](#) | [Reference](#) | [User Guide](#) | [Your Account](#)

The screenshot displays the OAG Schedules Analyser dashboard. At the top left is the OAG Schedules logo, which consists of a blue circle with a white airplane icon and the text 'OAG schedules' in blue. Below the logo is the heading 'Available Reports'. There are five report cards arranged in two rows. The first row contains 'Capacity Report', 'Bank Structure Report', and 'Schedule Changes Report'. The second row contains 'Power Table Report' and 'Top X Report'. Each card has a title and a brief description. Below the reports are three sections: 'Job Bin' with the text 'Currently no reports in Job Bin', 'Saved Reports' with 'Currently no Saved Reports', and 'Scheduled Reports' with 'Currently no Scheduled Reports'.

**Available Reports**

- Capacity Report**  
View important schedules information across different dimensions
- Bank Structure Report**  
Analyse flows of flights in and out of a hub airport within a 24 hour period
- Schedule Changes Report**  
Compare schedule changes between two time periods
- Power Table Report**  
Dynamic table to create a fully customised report
- Top X Report**  
View top carriers, top airports, top aircraft types etc. based on various metrics

**Job Bin**  
*Currently no reports in Job Bin*

**Saved Reports**  
*Currently no Saved Reports*

**Scheduled Reports**  
*Currently no Scheduled Reports*

OAG Schedules Analyser sits within the OAG Analyser Suite of products, each accessed via a common dashboard. 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. Introduction

## 1.2 Key Features

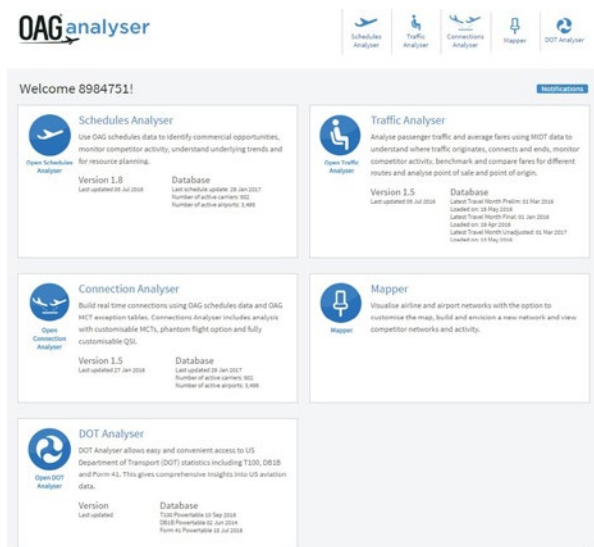
OAG Schedules Analyser has been designed to meet the needs of a wide variety of users. This means that the occasional user can access data quickly and easily via standardized reports. Equally, the user requiring in-depth analysis can configure settings, tailor outputs, and create their own reports.

- Data available back to 1996
- 4 standard reports as well as ‘power tables’ feature for ultimate flexibility
  - Schedules Capacity Report
  - Schedules Bank Structure Report
  - Schedules Changes Report
  - Schedules Power table
  - Top X report
- The ability to create groups of airlines, airports, aircraft types, cities, countries, and regions to generate reports which meet your needs.
- Save reports. Schedule the reports you need regularly. Create Job receipts – all saving you time and automating tasks.
- Reference tables which provide detailed information on airport, airline and aircraft codes, alliance groupings, seasons, countries and regions, a distance calculator and minimum connecting times.
- Integrated mapping and data export capability (.CSV, .PDF, .XLS, .XLS)

## 2. Getting started

This guide provides all the information you need to start using OAG Schedules Analyser. It has been designed to walk you through all of the steps involved with getting the data you need from Schedules Analyser and can be used on its own, or in conjunction with the user guide videos on our website. There is also a glossary of terms on our website which explains both standard industry terminology and some of the more obscure terms used, and a frequently asked questions section.

If you have any log in or account issues please contact [ContactUs@oag.com](mailto:ContactUs@oag.com). If you would like to give feedback on your experience of using Schedules Analyser or if you have any problems using this tool please contact your account manager 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 all the Analyser modules.



Each product you have access to is listed along the top right, and also in middle of the screen. Your account number is located at the top left of the screen, where it says welcome, and you need just one account and login to access all of the OAG Analyser products you subscribe to.

To open Schedules Analyser, the module covered in this user guide, click on either the module name at the top of the screen, or located to the right of the plane logo icon in the centre of the screen.

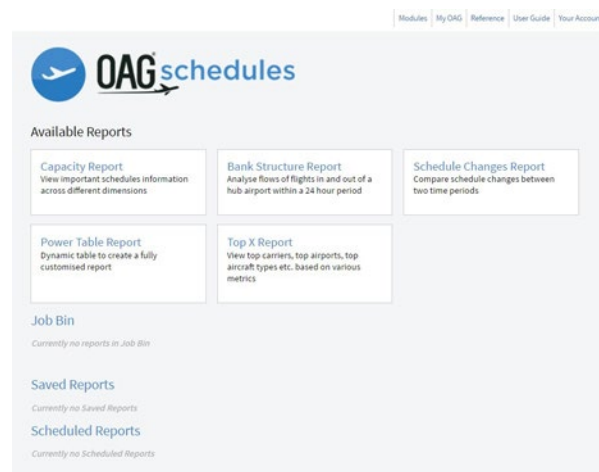
On logging into Schedules Analyser, you will see this screen which is the landing page:

In the central area you will see the 5 reports available in Schedules Analyser and below is the Job bin which stores reports once you've run them. Below that you can view any Saved and Scheduled Reports. Along the top of the screen there are some additional functions. Firstly, there are quick access links to each of the modules you have access to as part of your licence.

Next is the My OAG section which covers how to save reports, run scheduled reports at a certain time, and to customise groups of information to make running reports with similar queries easier.

The functions in this section, and the reference section next to it, are covered in more detail later in this guide. The User Guide option takes you through OAG's help pages which include this guide, some FAQ's, a glossary and some videos to guide you through how to use each report. In this user guide we will now take you through each of the reports in turn and how to use them.

You do not need to run through them in sequence – in fact it may be useful to jump ahead to the My OAG section.



### 3. Reports

There are 5 reports available in Schedules Analyser and these are listed in the table below along with a short summary of what you would use each report for. We describe how they work here and cover how to run each report in this guide. You can also access short video guides from our user guide that replicate the content provided here and provide worked examples for each report. From the home screen you can click on any one of the report names and this takes you straight to the report query page.

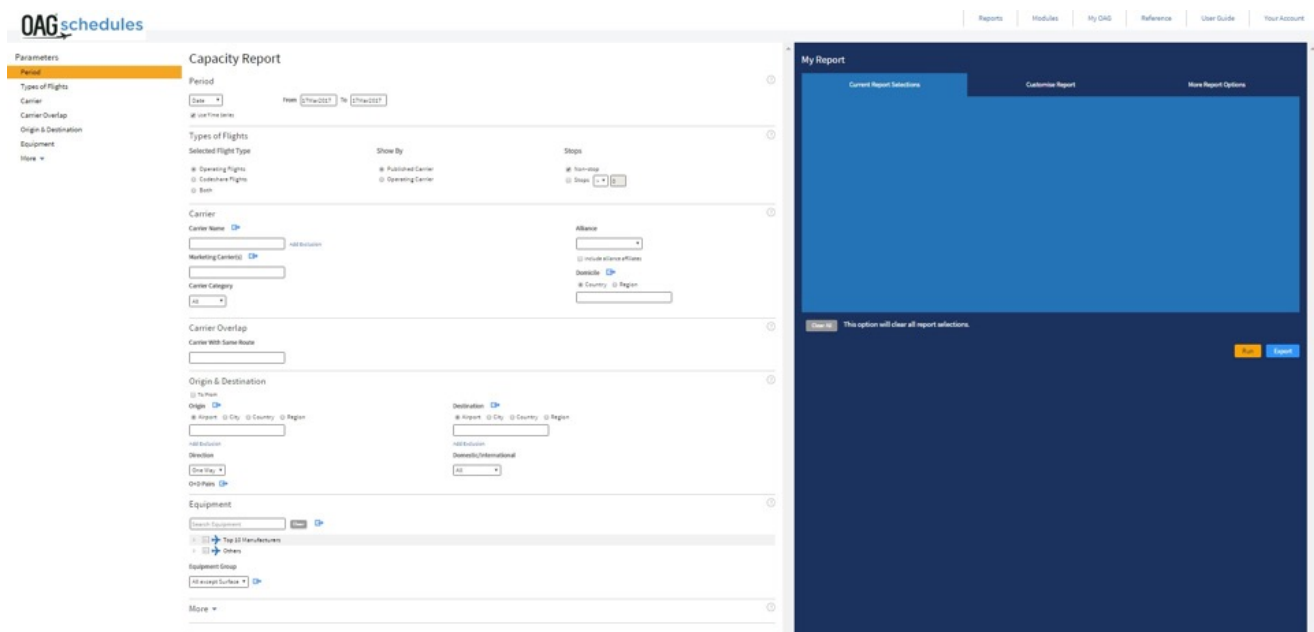
Report Types	What can I use it for?
Capacity Report	Allows you to extract actual schedule data by a range of parameters
Bank Structure Report	Allows you to analyse capacity at a hub airport
Schedule Changes Report	Allows you to check schedule changes between two time periods, or compare two periods of time
Power Table	Allows you to fully customise a report from scratch
Top X Report	Allows you to create a report for various categories such as carriers, departure or arrival airport, equipment (aircraft) by a range of measures including ASKs, ASMs, Seats and Frequency

Much of what is covered in the Schedules Capacity Report section can be applied to the other reports.

#### 3.1 Schedules Capacity Report

This report contains data on airline schedules – e.g. day of operation, departure and arrival times, type of equipment (aircraft), number of seats. Like most reports in Schedules Analyser, it has several 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, simply click on **Capacity Report**. A new screen like the one below will appear:



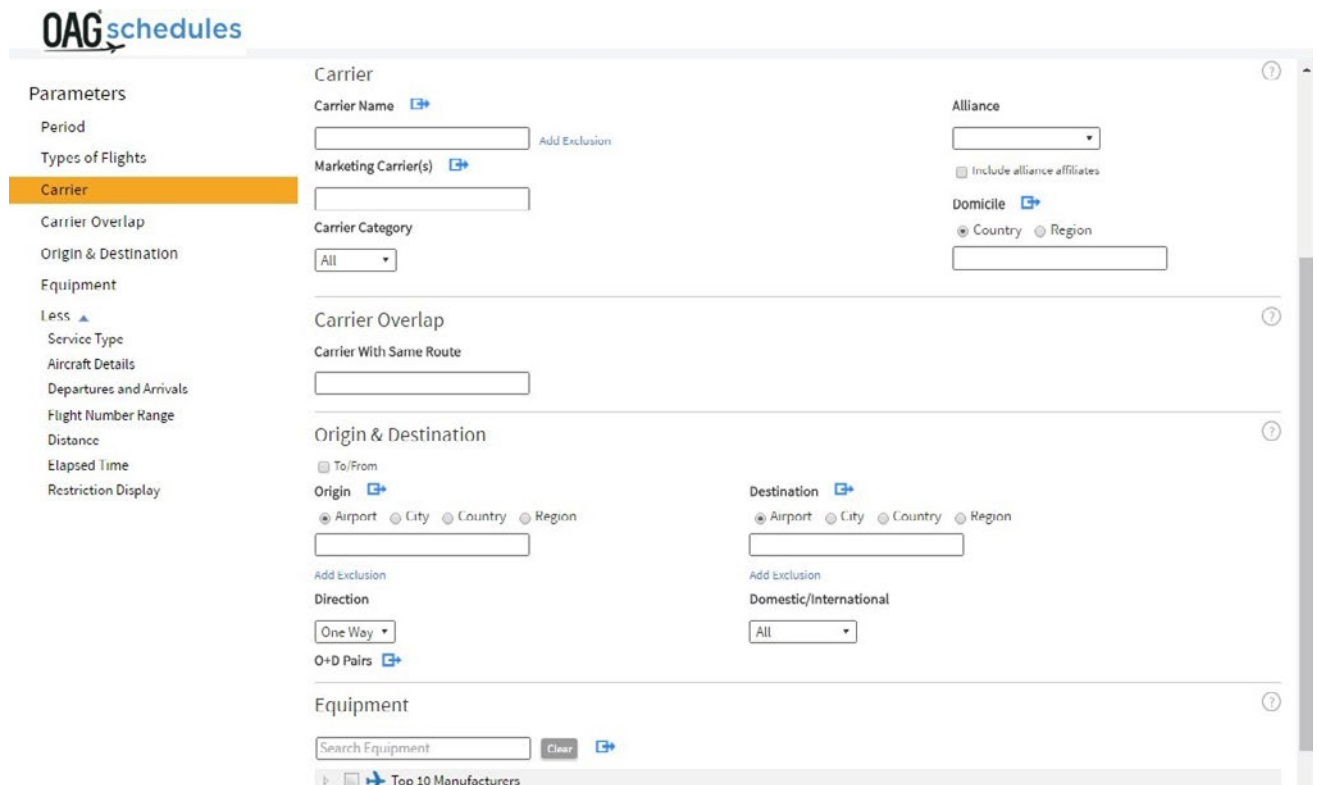
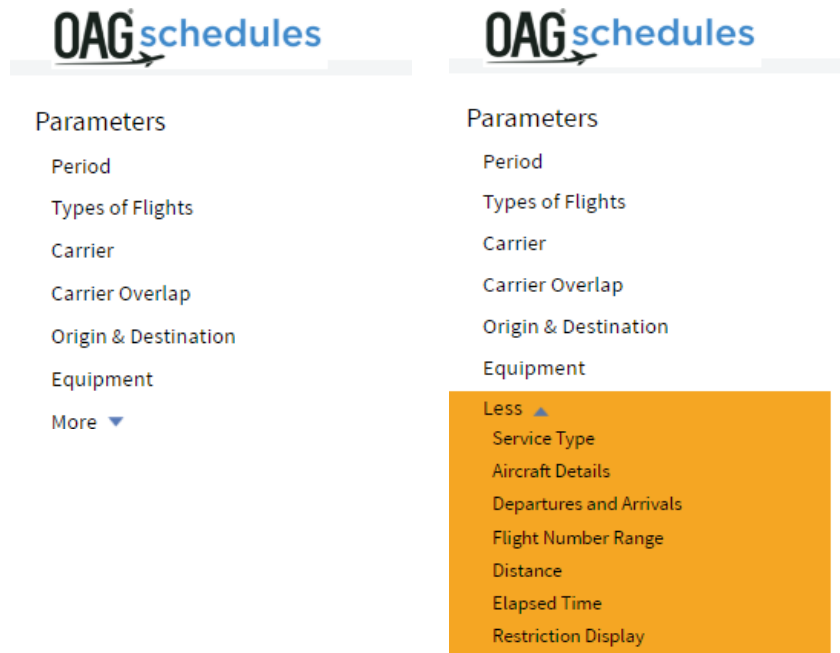
There are three main areas. On the left are the Parameter groups so you can quickly navigate to the fields you want, in the central area are all the fields you need to select the parameters you want to use to define your report, and to the right is where you customise the look of the report. We'll take a look now at each of these areas.

### 3. Reports

#### 3.1.1 Paramaters

On the left, there are 6 parameters displayed and 7 more which open up if you click on **more** at the bottom of the list:

As you click on each parameter it moves the central screen to that area. In the image below we clicked on **carrier** and you can see carrier has moved to the top of the screen.



### 3. Reports

#### Period

We'll look firstly at **Period**. As you can see from the dropdown list below, there are several time period options that can be selected. These are date (day), week, month, quarter, season and year. The default is the current date.

#### Capacity Report

Period

Date  To

Time Series

Flights

Operating Flights
  Published Carrier
  Non-stop

Beneath the drop down box there is a box called Time Series. The report assumes you want the data presented as a time series so the default is checked. If you want to see the data for a period of time as a total uncheck this box.

Data in Schedules Analyser is available back to 1996 - (if your subscription includes that) and until the end of the following year. The schedule data for time periods in the future is more accurate the closer it is but, inevitably, the further away it is the more likely it is to not include some schedules as airlines will not have filed them, or they will be subject to change.

This report can return a lot of data, so try not to select a longer time period than you really need.

#### Type of Flights

The next group of parameters relate to the Type of Flights. As you can see, operating flights, published carriers and non-stop flights are the default options here, but you can change these if you want. You may not need to change these but if you are interested in code-sharing arrangements between airlines you may want to click on 'both' so you can see both the flights which the carrier operates and those that it doesn't operate, but still sells.

Types of Flights ?

Selected Flight Type

Operating Flights
  Codeshare Flights
  Both

Show By

Published Carrier
  Operating Carrier

Stops

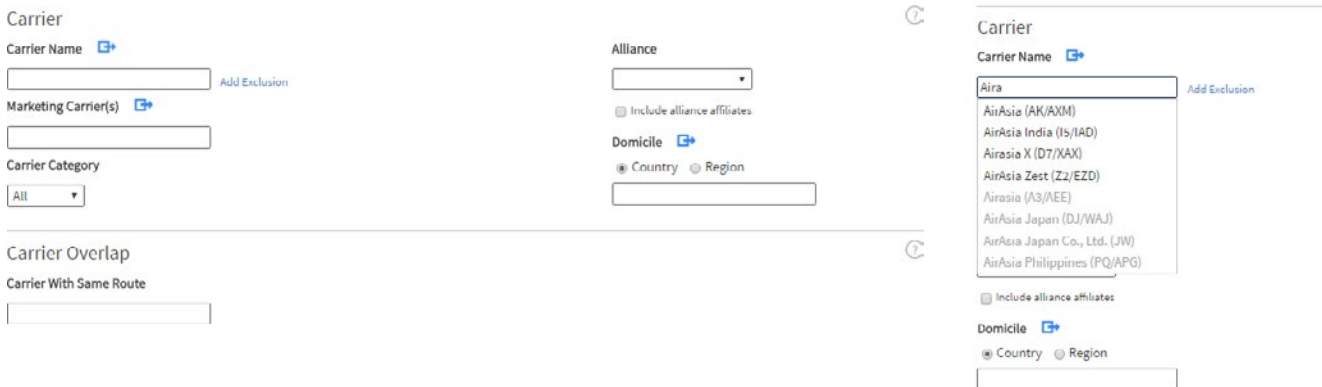
Non-stop
  Stops



### 3. Reports

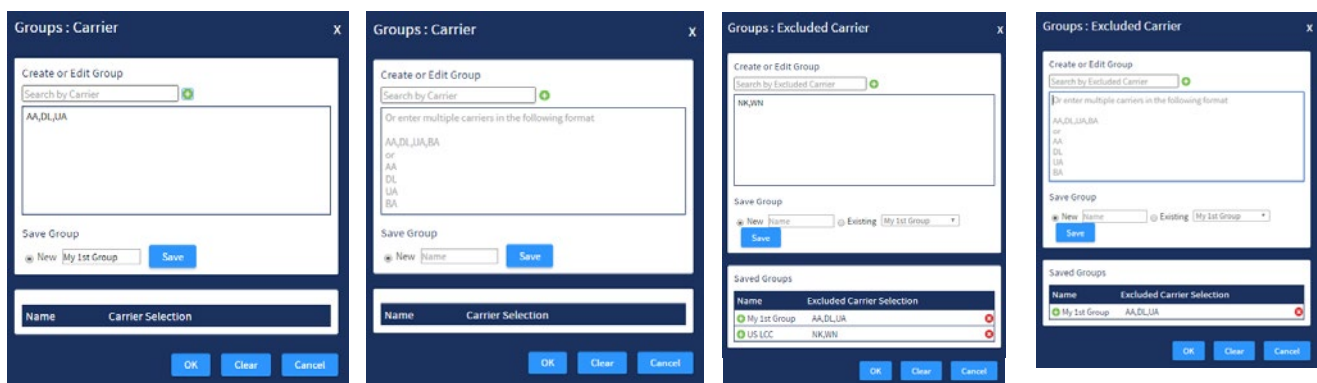
#### Carrier

Then in the Carrier section, you have two options. If you leave this blank, data for all carriers will be included. Otherwise, you need to specify which carriers, or carrier groups, you want to view data for. 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.



You can add as many airline names or codes as you like, as long as they are separated by a comma. If you want to save group of carriers to make future queries faster, you can do so. You do this by clicking on blue arrow logo at the end of the field. This opens up a new box as pictured below. You enter the carrier, or carriers you want and then you have the option to either save your selection (so you can revisit it in future) or simply enter the details and run your query. We'll run through the steps to save the query here.

Firstly, type in a name for your group – we've called it 'My 1st group'. Then, add the carriers you want to include by typing in the two letter code, or name in the airline field. Click the **green + symbol** to add them to the list. Once you have added all the required carriers, click on **Save** to keep the selection. Then click on **OK** which returns you to the query page with the carriers you've selected added to the required field.






Below the carrier box and, as before, select a single carrier in the exclude field by using their two letter code, or name, or select multiple entries. You'll see here on the left that we've created an US LCC Group which then appears in our Saved Groups list.


You can also select **Marketing Carrier(s)** in the same way. There is also a **Carrier Category** option below Marketing Carrier with three options to choose from a drop down list: All, Low-cost, or Mainline. The default is All.

### 3. Reports

In carrier options, you also have the ability to select a specific airline **Alliance** from a drop down list. Alliance affiliates can also be included by clicking on the **Include alliance affiliates** box.

#### Carrier


Carrier Name  Excluded Carrier Name  

Marketing Carrier(s) 

Carrier Category

Alliance

Include alliance affiliates

Domicile 

Country  Region

The last option in the Carrier section is **Domicile**. You can select a Domicile Country, or group of countries or region(s) where an airline is based. As with the other options you can save a selection if you need to.

#### Carrier Overlap

The next field is **Carrier Overlap**. There are two ways to use this function. If you use it on its own, without entering a carrier in the field above, the report you generate will show all carriers which operate the same routes.

#### Carrier Overlap

Carrier With Same Route

Alternatively you can select one or more carriers in the carrier field above, and then, when you add another carrier name in the carrier overlap field, the report will give you all the routes which are operated by both this carrier and the second one.

#### Origin and Destination

The next section covers routing. 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 airline capacity from the origin to the destination. If you want to extract capacity data for both directions, then click on the **Direction** box, which will allow you to select two-way data. The default is one-way.

Sometimes you might just want to look at all capacity 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 point.

You can also exclude airports, cities, countries or regions from your queries just by clicking on **add exclusion** under either Origin or Destination and adding one or multiple entries. Again there is the option to save a group here. 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 following box:

**O&D Pairs** X

Origin	Destination
Origin Airport	Destination Airport 
Origin Airport	Destination Airport 
Origin Airport	Destination Airport 
Origin Airport	Destination Airport 

[Add More O&D Pairs](#)

**Bulk selection**

Please enter O&Ds with a comma or space between

Example:

AMS,ABZ  
AMS,ACE

or

AMS ABZ  
AMS ACE

With one pair per line.

You can use this box to enter specific 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.

### 3. Reports

#### Equipment

The **equipment** field allows you to select a specific aircraft type, or range of types, and as before save a pre-determined list of aircraft types. As you enter the aircraft type – in this case we've typed in A320 – a list of options of the different aircraft variants is displayed. You can then click on the ones you want which will then add this to the query.

You can also select the **Top 10 Manufacturers** which adds all aircraft types associated with these manufacturers. You can then remove any you don't need. Leaving the equipment field blank returns data for all aircraft types. The online Glossary provides a comprehensive list of the different Equipment Groups (Aircraft categories).

Below the equipment field is an **equipment group** option. This lets you summarise aircraft type in a different way – by type of aircraft. There are several options including Regional Jets, Narrowbody and Widebody equipment groups. Only one of these can be selected using the dropdown list but if you click on the arrow you can customise a group and add more than one group.

#### Equipment

Equipment

a320

- Top 10 Manufacturers
  - Airbus Industrie
    - Airbus A320 (Freighter)
      - Airbus A320 (Freighter) (32F)
    - Airbus A318/319/320/321
      - Airbus A320 (320)
      - Airbus A320 (Sharklets) (32A)

Top 10 Manufacturers

- Airbus Industrie
- Avions de Transports Regional
- Avro International Aerospace
- Boeing
- Canadair
- De Havilland Canada
- Embraer
- Fokker
- McDonnell Douglas
- Saab

Others

Equipment

Search Equipment

- Top 10 Manufacturers
- Others

Equipment Group

Widebody

- All except Surface
- Jet Aircraft
- Regional Jet
- Piston
- Narrowbody
- Widebody
- Turboprop
- Helicopter
- Amphibious
- Surface

### 3. Reports

#### Service Type

Clicking on the **More** field below Equipment opens up an additional list of parameters to allow you to further refine the data in the report you are extracting. There are an additional seven fields and we will cover these briefly in turn.

The screenshot shows the 'Equipment' section of the OAG Schedules Analyser interface. On the left, a sidebar menu lists several filter categories: Carrier, Carrier Overlap, Origin & Destination, Equipment, Aircraft Details, Departures and Arrivals, Flight Number Range, Distance, Elapsed Time, and Restriction Display. The 'Equipment' category is currently selected and expanded, showing a list of sub-options: Less (selected), Service Type, Aircraft Details, Departures and Arrivals, Flight Number Range, Distance, Elapsed Time, and Restriction Display. The main content area displays the 'Less' sub-option, which is further expanded to show several filter fields: 'Service Type' (set to 'Passenger'), 'Aircraft Details' (Cabin Type: 'All', Seats: '0 to 0'), 'Departures and Arrivals' (Departure Time: 'hhmm to hhmm', Arrival Time: 'hhmm to hhmm', both with 'Exclude Time Range' checkboxes), 'Flight Number Range' (input fields '0 to 0'), 'Distance' (input fields '0 to 0', unit dropdown 'Kilometers'), 'Elapsed Time' (input fields 'hhmm to hhmm'), and 'Restriction Display' (dropdown 'All').

You can also choose different **Service Types** which lets you restrict your query to passenger operations (the default) or cargo operations, or both. There are two fields in **Aircraft Details**; **Cabin type** with 4 sub-options – All (default), First, Business or Economy; and **Seats** where you can select only operations with a certain number of seats.

Under **Departures and Arrivals** you can restrict the data returned to those operations between certain departure and arrival times, or exclude specific time ranges – for example you may want to look at night time flights at a particular location so it can be helpful to do this in the query rather than having to carry out further analysis on the data once extracted.

You can also include a **Flight number range**; **Distance** in kilometres, miles or nautical miles; and **Elapsed time** – again useful if you wanted to consider journeys of a particular length only.

As before, if these fields - where there isn't a default or drop down list to choose from - are left blank, the data extracted will cover all times and flight numbers for example.

Lastly in this section, the display can be restricted to published or unpublished data. The default is all.

## 3. Reports

### 3.1.2 Report Outputs

As you define your report by selecting Parameters on the left hand side of the screen they appear in the **Current Report Selections** tab on the right hand (blue) side. The capacity report is a standard one so there are a number of pre-set data fields which are included.

**Capacity Report**

Period  
 Date: From 22Mar2017 To 22Mar2017  
 Use Time Series

Types of Flights  
 Selected Flight Type:  Operating Flights,  Codeshare Flights,  Both  
 Show By:  Published Carrier,  Operating Carrier  
 Stops:  Non-stop,  Stops

Carrier  
 Carrier Name:  Add Exclusion  
 Marketing Carrier(s):   
 Carrier Category: All  
 Alliance:   
 Include alliance affiliates  
 Domicile:  Country,  Region

Carrier Overlap  
 Carrier With Same Route:

Origin & Destination  
 Origin:  (Airport, City, Country, Region)  
 Destination:  (Airport, City, Country, Region)  
 Add Exclusion:   
 Direction: One Way  
 O+D Pairs:

**My Report**

Current Report Selections | Customise Report | More Report Options

Period  
 Date: 22Mar2017 to 22Mar2017  
 Time Series: Yes

Types of Flights  
 Flight Type: Operating Flights | Show By: Published Carrier | Non-stop

Equipment  
 Group: All except Surface (AES)

Clear All This option will clear all report selections.

Run Export

You can remove some of these if you don't need them by opening the next tab, **Customise Report** and unchecking the fields you don't need.

As you can see there are several options to customise the output of the report and simply clicking on the tickbox in the field removes it, and clicking again in the field puts it back.

At the bottom of this tab there are some **Graphing** and **Mapping Options** and you can have these turned on or off in this area, again just by clicking on the arrow to uncheck the box. The default is to include these options. You can also customise what the graphing option does, by deciding which data you want to have on the x and y axis and whether you want to see the data as a line graph, column or pie chart.

**My Report**

Current Report Selections | Customise Report | More Report Options

Customise Output  
 Note: removing columns in report output will result in some data aggregation.

Select All

Published Carrier  Operating Days  Codeshare Flts  
 Operating Carrier  Elapsed Time  Effective Dates  
 Flight Number  Distance  Surface Transport  
 Origin  Stops  Full Itinerary  
 Destination  Equipment  
 Departure Time  Frequency (L)  
 Arrival Time  Seats (L)

Pub. Carrier	Flight	Org	Dest	Dep. Time	Arr Time	Op. Days	Elapsed Time	Distance (KM)	Stops	Equipment	Frequency	Seats
AA	1	LHR	JFK	10:10:00	13:15:00	123467	3:05:00	5546	0	Airbus 737	5	5
AA	1	LHR	JFK	10:10:00	13:15:00	123467	3:05:00	5546	0	Airbus 737	5	5

Example data to reflect column and data types

Graphing Options  
 Show data in a graph  
 Type:  Line  Columns  Pie  
 X Axis: Time Series  
 Y Axis: Frequency  
 Line: Published Airline

Mapping Options  
 Show map

Clear All This option will clear all report selections.

Run Export

### 3. Reports

The last tab, **More Report Options**, allows you to change the units for data and switch between codes and labels for airlines and airports.

At the bottom of the query screen (this is there whichever tab you have open) you have the option to Run the query or Export it. Running the report means the data appears

Published Carrier	Flight Number	Origin	Destination	Departure Time	Arrival Time	Op Days	Elapsed Time	Distance (NM)	Stops	Equipment	Frequency	Seats	Time Series
BA	113	LHR	JFK	1105	1520	23 56	08:25	5536	0	744	1	275	2017-09-22
BA	135	LHR	JFK	1020	2025	123456	08:25	5536	0	744	1	275	2017-09-22
BA	121	LHR	JFK	0920	1220	2 67	08:00	5536	0	744	1	275	2017-09-22
BA	173	LHR	JFK	1400	1610	3	08:05	5536	0	777	1	249	2017-09-22
BA	176	LHR	JFK	0940	1545	25456	08:05	5536	0	744	1	275	2017-09-22
BA	177	LHR	JFK	1305	1715	3 6	08:20	5536	0	744	1	337	2017-09-22
BA	179	LHR	JFK	1000	2205	34	08:05	5536	0	744	1	337	2017-09-22
BA	183	LHR	JFK	1020	2315	123457	07:55	5536	0	744	1	275	2017-09-22

**My Report**

Current Report Selections      Customize Report      **More Report Options**

**More Report Options**

**Distance**

Kilometers (km)

Nautical Miles (NM)

Miles (mi)

**Payload**

Kilograms (kg)

Pounds (lb)

**Elapsed Time**

hh:mm:ss (hh:mm:ss)

ddd (dd:mm:ss)

minutes (mm:ss)

**Labels or Codes**

Show codes

Show labels

Clear All    This option will clear all report selections.

Run    Export

on your screen, and if there are less than 1,000 rows, you have the option to click on the page icon at the bottom of the table and export as a CSV file. If the report is larger than 1,000 rows, you will have to export it and retrieve it from the job bin. You'll see from the example below that once you click run, the results are displayed in the format below. Each of the three areas has an arrow on the right, either in the top right hand corner (map) or the bottom right hand corner (chart, table).

**Top 5: Published Carrier by Frequency**

Showing 1 - 10 of 22 Results

Published Carrier	Flight Number	Origin	Destination	Departure Time	Arrival Time	Op Days	Elapsed Time	Distance (NM)	Stops	Equipment	Frequency	Seats	Time Series
AA	141	LHR	JFK	1955	2249	1234567	07:54	5536	0	772	1	273	2023-08-07
AA	101	LHR	JFK	1030	1324	1234567	07:34	5536	0	776	1	304	2023-09-07
AA	107	LHR	JFK	1700	1950	1234567	07:50	5536	0	776	1	304	2023-08-07
AA	105	LHR	JFK	1515	1809	1234567	07:54	5536	0	776	1	304	2023-08-07
B6	3220	LHR	JFK	0629	1130	1234567	08:05	5536	0	32Q	1	138	2023-08-07
B6	20	LHR	JFK	1155	1457	1234567	08:02	5536	0	32Q	1	138	2023-08-07
BA	113	LHR	JFK	1420	1920	12345	08:00	5536	0	777	1	235	2023-08-07
BA	183	LHR	JFK	1905	2150	1234567	07:45	5536	0	777	1	235	2023-08-07
BA	179	LHR	JFK	1805	2100	12 7	07:55	5536	0	777	1	235	2023-08-07
BA	177	LHR	JFK	1310	1600	1234 67	07:30	5536	0	776	1	234	2023-08-07

22 result(s) found, displaying result(s) from 1 to 10. Page 1 / 3

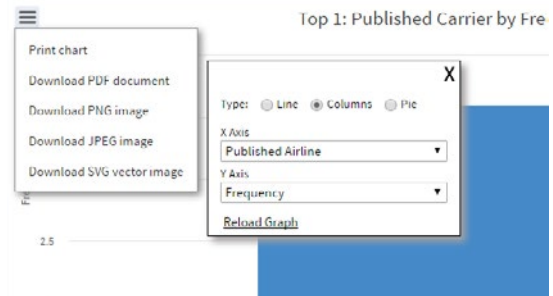
Clicking on this arrow expands that output to fill the page. You can further refine the data even at this stage.

**Top 1: Published Carrier by Frequency**

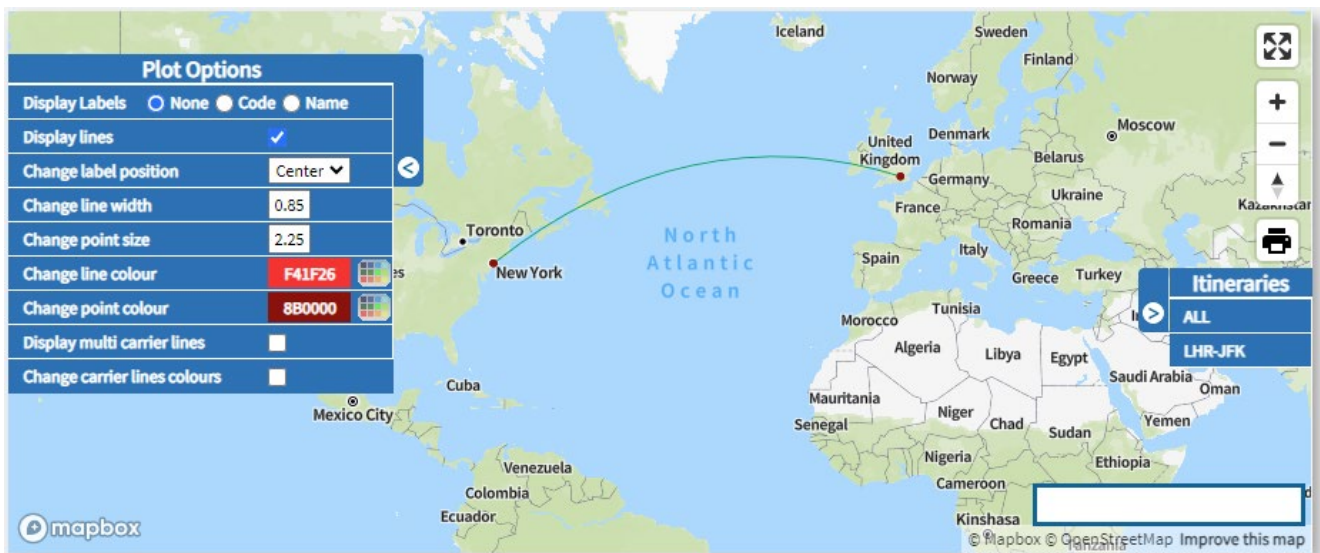
Modify Graph

### 3. Reports

Clicking on **Modify Graph** allows you to amend the outputs in the graph, and at the top of the graph there are 4 small lines which if you click on them, open up the export options for the graph. You can send straight to print or download in several different formats including PDF, PNG, JPEG or SVG vector image.



On the map, clicking on the blue tabs on either side of the map opens up **Plot Options** on the left where you can amend the location and format of labels and lines, and change the colour of the lines – for example if your query includes several carriers this can be very useful. You can also zoom in and out on the map using the + and – symbols on the top right hand side and re-center it by clicking and dragging the map to where you want it to be centered.



The map does not automatically export, but you can save it as a screenshot using external tools.

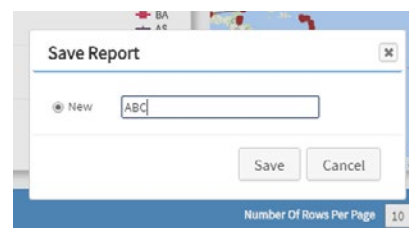
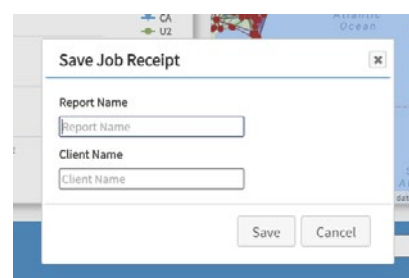
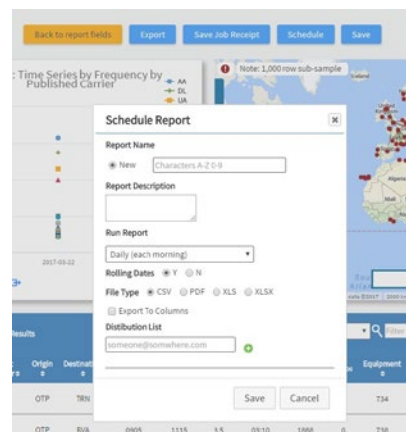
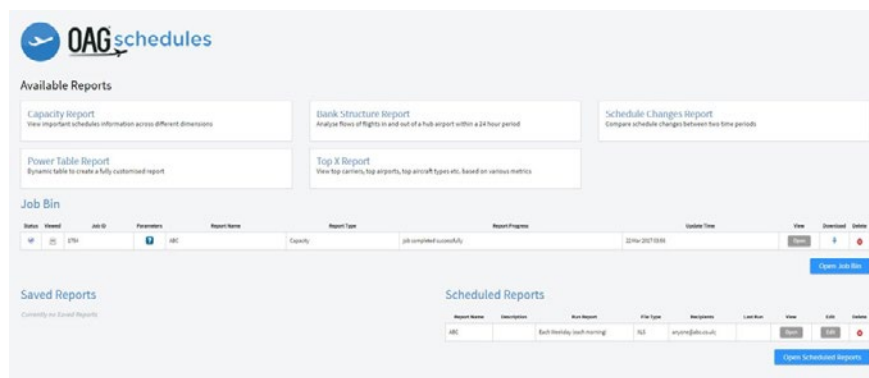
## 3. Reports

### 3.1.3 Saving Reports and Scheduling

Reports can also be run regularly and emailed directly to yourself, customers or colleagues by selecting the **Schedule** option at the top of the report output page. You can give the report a name and select the frequency you want and the output format. Finally, enter the required email address(es) in the field below email address, click on the **plus sign** to add them to the box below and click on **save**.

You can also save a job receipt by giving a report a name and client name, selecting **Save Job Receipt** from the top.

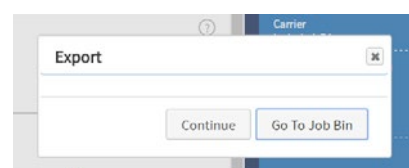
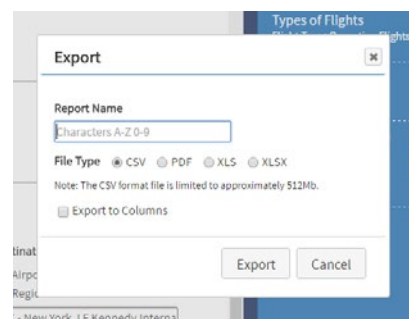
The scheduled report now appears in the OAG Schedules Analyser home page under **Scheduled Reports**. You can see the Report Name, Frequency, File Type and Recipients, and when it was last run. You can open it from here, or edit any of the fields by clicking on edit.



Lastly you can save the report by clicking on **Save** at the top of the report output screen and the following box opens up. Give the report a name and then click **Save**. When you return to the home page you'll see the saved report now appears under **Saved Reports**. You can then open, run or share the report from there.

### 3.1.4 Exporting

Once you've run the report, you can download it in a range of ways. Click on **Export** and an export box opens. Give your report a name and then select the file type – you can choose from a range of options including CSV, PDF and XLS. If you know that you will always want to export in a particular format, you can save it as a default in the User Preferences section (we cover how to do this later in this guide). Once you've given your report a name and selected the file type, click on **Export**. This box then appears and you can choose to continue with another query, or go the job bin where the report will be processed.





### 3. Reports

The job bin looks like this and can be accessed by clicking on **Go to Job Bin**, or from the home page in Schedules Analyser. Click on the arrow under download to download the report to your PC.

Number of rows per page

Status	Viewed	Job ID	Parameters	Report Name	Report Type	Report Progress	Update Time	View	Download	Delete
		1754		ABC	Capacity	job completed successfully	22 Mar 2017 03:56	Open		

1 - 1 Of 1 Results

The envelope to the left of the ID number indicates whether the report has been opened or not. Reports will remain in your job bin for 4 days, then be deleted automatically. Clicking on the question mark below Parameters shows you at a glance the key report parameters.

Available Reports

- Capacity Report**  
View important schedules information across different dimensions
- Bank Structure Report**  
Analyse flows of flights in and out of a hub airport within a 24 hour period
- Schedule Changes Report**  
Compare schedule changes between two time periods
- Power Table Report**  
Dynamic table to create a fully customised report
- Top X Report**  
View top carriers, top airports, top aircraft types etc. based on various metrics

Job Bin

Status	Viewed	Job ID	Parameters	Report Name	Report Type	Report Progress	Update Time	View	Download	Delete
		1754		ABC	Capacity	job completed successfully	22 Mar 2017 03:56	Open		

Open Job Bin

#### Expert user:

*“The Schedules Capacity report is very detailed so it’s helpful to run quite a specific report for what you need otherwise you will generate a LOT of data”*

*“If you want to look at more than one period of time e.g. 5 years’ worth of data – check the time-series box so that each year is shown separately – allowing you to make comparisons between each time period”*

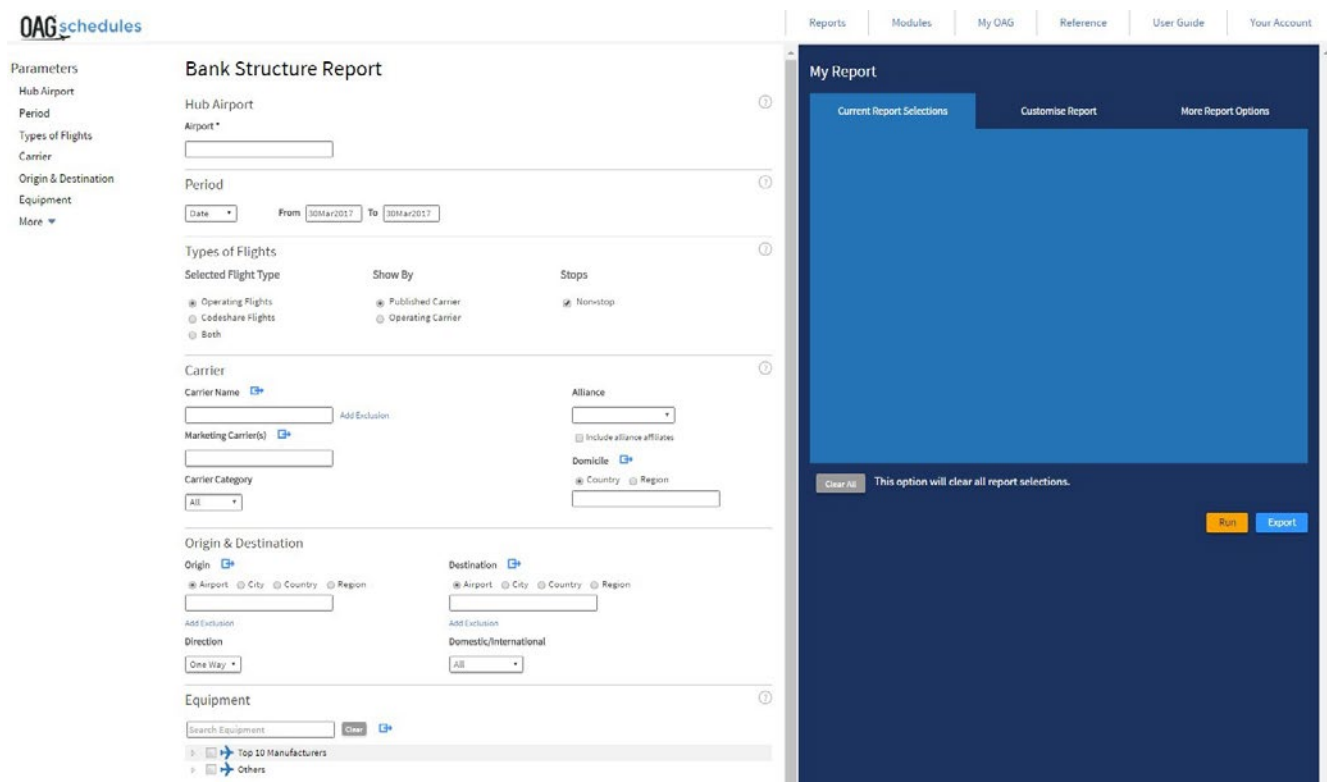
The user guide link from Schedules Analyser for this report takes you to our website where there is a short video with a worked example of how to create a capacity report.

### 3. Reports

#### 3.2 Schedules Bank Structure Report

This report allows you to analyse schedules data at a hub airport. The parameters, query screen and report outputs are similar to the schedules capacity report. This may not be a report you often need to use but can be interesting to understand connecting waves at a hub. Firstly we'll take a look at the report query page and how to navigate around it.

As before, you can click through to the report from the Schedules Analyser homepage. Click on **Bank Structure Report** in the available reports section. A new screen like the one below will appear:



You can only look at capacity at one hub at a time and you have to enter an airport in the hub field for this report to work.

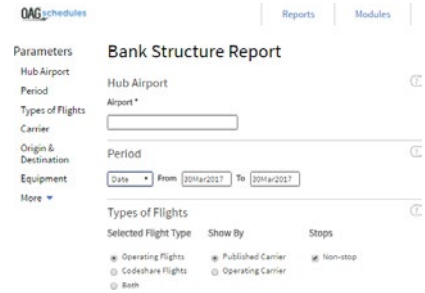
As before the report can be run with a variety of options including for all carriers, or a selection; by alliances, by specific origins and destinations (at different levels e.g. airport, city, country and region)

In the same way that we walked through how to run a Schedules Capacity report, we'll do the same here. Many of the fields are similar, so we will focus on those that differ from that report.

### 3. Reports

#### Chose a Hub Airport

Selecting the **hub airport** you want to review is the first step. You can either type in the airport code or name or choose from the drop-down list which appears after you begin to type the name or code. Remember, you can analyse only one hub at a time.



#### Carrier

As before, the **carrier** field can also be left blank or a single carrier or multiple selections made depending on what kind of analysis you want to undertake. All other selections work in the same way as if left blank, all data will be shown for the selected hub. You can also select what type of carrier you wish to see data for – all, low cost or mainline. There is no carrier overlap option in this report.



#### Origin & Destination

The report shows the inbound and outbound flows to and from the hub airport you select. Origin and/or destination can be selected in the same way as in the Schedules Capacity Report. Leaving the fields blank means **ALL** origins and destinations for your selected hub will be included in the report.



#### Equipment

The **equipment** field allows you to select a specific aircraft type, or range of types, and as before save a pre-determined list of aircraft types. You might want to select just narrow body or widebody aircraft for the hub you are investigating which you can select from the Equipment Group dropdown.



#### More

Clicking on the **More** field below Equipment opens up an additional list of parameters to allow you to further refine the data in the report you are extracting. There are an additional seven fields and the functionality of these is covered in the How to run a capacity report section.

### 3. Reports

One thing to note is that Under **Hub Departures and Arrivals** you can restrict the data returned to those operations at the hub you are considering between certain departure and arrival times, or exclude specific time ranges – for example you may want to look at night time flights. The data returned here will only be for the hub that you have selected.

Less ▾

- Service Type
- Aircraft Details
- Hub Departures and Arrivals
- Flight Number Range
- Distance
- Elapsed Time
- Restriction Display

Top 10 Manufacturers

Others

Equipment Group

All except Surface

Less ▾

Service Type

Passenger

Aircraft Details

Cabin Type

All

Seats

0 to 0

Hub Departures and Arrivals

Hub Departure Time

hhmm to hhmm

Exclude Time Range

Hub Arrival Time

hhmm to hhmm

Exclude Time Range

Flight Number Range

0 to 0

Distance

0 to 0

Kilometers

Elapsed Time

hhmm to hhmm

Restriction Display

All

As before, if these fields - where there isn't a default or drop down list to choose from - are left blank, the data extracted will cover all times and flight numbers for example.

### 3. Reports

#### 3.2.1 Report Outputs

In the Bank Structure report, the options under **Customise Report** are different to what you see in the Capacity report. There are some additional columns that can be added to the report, including Marketing Carrier, Effective Dates, and others.

**My Report**

Current Report Selections      Customise Report      More Report Options

### Customise Output

Select additional columns for the report.

- Select All
- Marketing Carrier
- Effective Dates
- Full Itinerary
- Elapsed Time
- Payload

Airline	Flight No.	Origin	Op. Days	Equip	Service	Seats	Dep Time	Hub Time	Arr Time	Seats	Service	Equip	Op. Days	Arrival	Flight No.	Airline
AA	100	JFK	3	77W	J	310	18:25:00	06:20:00								
								06:20:00	08:35:00	143	J	319	2 4	CDG	1081	AF

Example data to reflect column and data types

### Graphing Options

Show data in a graph

Type:  Area    Line    Columns

X Axis:

Y Axis:

### Mapping Options

Show map

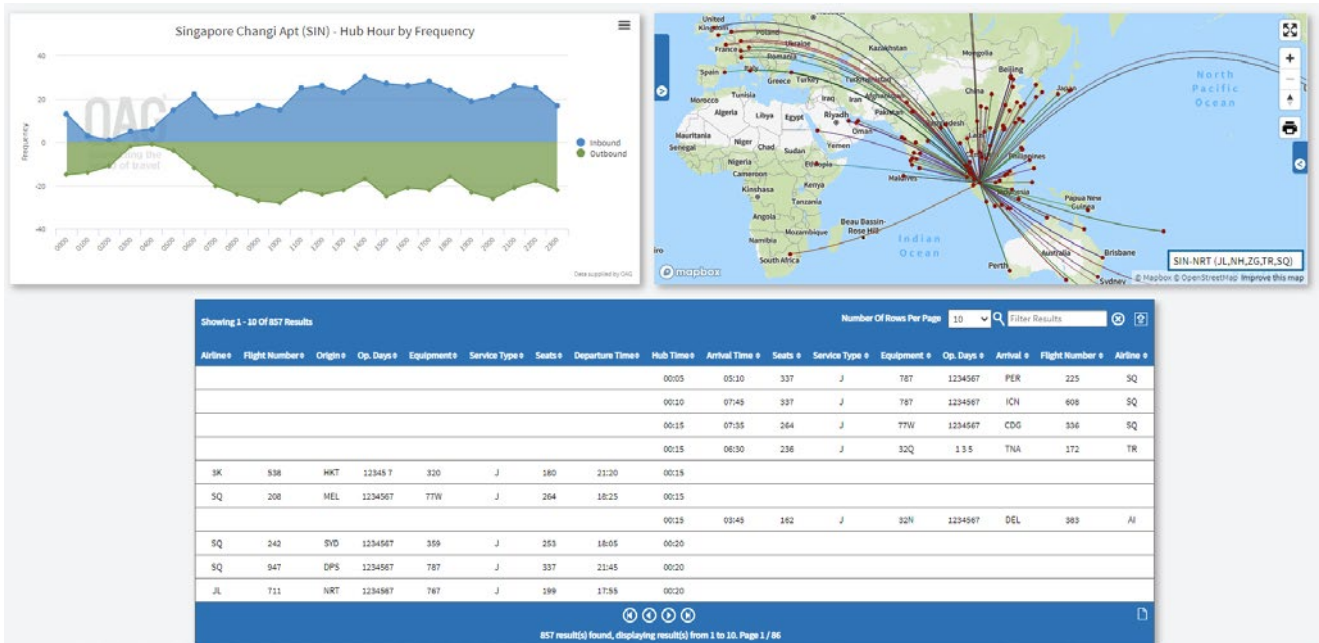
This option will clear all report selections.

In addition to returning the data in a tabular format, this data from this report is also plotted automatically onto a **graph and a map** which like the Capacity Report, are additional features of the Schedules Bank Structure Report. At the bottom of the Customise Report option you can have these turned on or off (the default is to include them) and customise what data is displayed on which axes of the graph.

Hub arrivals and departures can be displayed as an area graph, line graph or as columns. The default is an area graph. The last tab, **More Report Options**, allows you to change the units for data and switch between codes and labels for airlines and airports.

### 3. Reports

Clicking on **Run** produces the following outputs which can be customised in the same way as described in the How to run a capacity report section. As before, you can amend the outputs in this field by either clicking on the return to report fields tab, or by opening up the edit options in the output page itself. Clicking on the arrow in any of the three outputs maximises that to the full screen and clicking on the arrow again returns to the three part display.



The user guide link from Schedules Analyser for this report takes you to our website where there is a short video with a worked example of how to create a bank structure report.

## 3. Reports

### 3.3 Schedules Changes Report

This report allows you to identify what changes, if any, have occurred to schedules when comparing different time periods. There are several categories that can be checked and we outline these below. As with the other Schedules Analyser reports, you can gather a lot of data with very little input, however refining your query means that you can be very precise about exactly what data you need.

Many of the fields in this report are exactly the same as the other Schedules Analyser reports, so in this case we'll focus on the ones that are different. The main differences are the Select Change Type field, and the Period field.

#### Key changes field

You can either select all changes, or just one, or a combination of options. There are 8 fields which we outline below:

OAG schedules

### Schedule Changes Report

Parameters

- Period
- Types of Flights
- Carrier
- Origin & Destination
- Equipment
- More ▾

Select Change Type

- Select all
- New Routes
- Discontinued Routes
- New/Discontinued Flight Numbers
- Equipment Changes
- Terminal Changes
- Time Changes
- Capacity Changes

#### 3.3.1 Schedules Changes Report

Category	What it can be used for
Select All	Allows you to select all the changes below
New routes	Allows you to view new flights between a range of dates i.e. by comparing August 2017 with August 2016. If the report shows no information it means there were no changes between these times.
Discontinued Routes	Allows you to view all discontinued flights between two periods of time.
New/ Discontinued	You can view new and discontinued flight numbers for new flights within a selected time range.
Equipment Changes	Allows you to identify fleet changes. If you select a single carrier, the report will show any changes in fleet for that carrier. If you select more than one carrier you will see the fleet changes by carrier
Terminal Change	If you require information about terminal changes select this option. It will show all scheduled terminal changes within the selected period
Time Changes	Shows changes to arrival and departure times, within selected time
Capacity Change	Shows all scheduled seat capacity changes

### 3. Reports

#### Time Period Options

The Schedule Changes Report allows you to view changes by comparing two periods of time.

You can compare changes by:

Category	What it can be used for
Year	You can compare two single years i.e. 2016 vs 2016 but also two ranges of years i.e. 2008-2012 compared with 2013-2017.
Season	This selection allows you to compare seasons such as winter or summer. You can compare one season with another i.e. Summer 2016 vs Summer 2017, but you can also compare ranges of seasons i.e. Summer 2006 - Winter 2006/7 vs Summer 2016 to Winter 2016/17.
Quarter	For quarterly information you need to select the year and quarter i.e. Q1 (Jan-Mar) 2016 vs Q1 (Jan-Mar) 2017.
Month	As above, you need to select year and month i.e. January 2007 vs January 2017 or January – December 2016 compared to January – December 2017.
Week	This option allows you to compare weeks. You can select the week commencing i.e. 20-26 Mar 2017 or the week commencing i.e. 21 Mar 2016 compared to week commencing 20 Mar 2017. The data will show information for all weeks or the range of weeks.
Date	This selection allows you to compare one day or a range of days i.e. 20 Mar 2017 to 26 Mar 2017 or 21 Mar 2016 vs 20 Mar 2017.

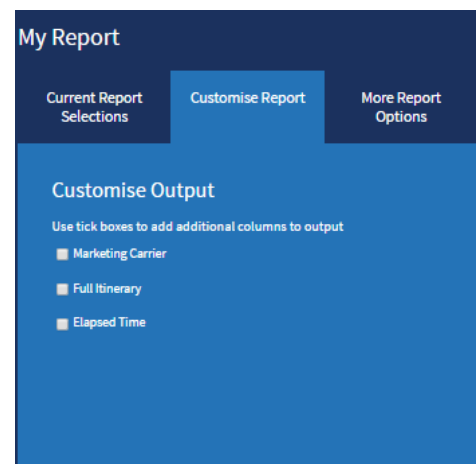
There are only two options in the More field in the Schedule Changes report. These are service type and restriction display.

All selections which are not detailed here operate in the same way as described in the Schedules Capacity Report section.

Like previous reports you can further Customise the Schedule Changes report by clicking on one of the three tabs in the My Report section.

**Customise Report** allows you to add three additional columns to the report as shown in the image on the left here, and **More Report Options** allows you to change the look of some of the outputs.

Like before, click to **Run** this report, or **Export** to take it straight to the job bin. If you run the report you can check whether the parameters and outputs you have selected are what you need.





### 3. Reports

This report does not provide you with a graph or mapping options, but simply returns the data requested in a table format. If you select more than one change, they appear along the top of the output screen, and you can toggle between them simply by clicking on each box.

The screenshot shows the OAG Schedules Analyser interface. At the top, there is a navigation bar with links for Reports, Modules, My OAG, Reference, User Guide, and Your Account. Below this, there are several action buttons: Back to report fields, Export, Save Job Receipt, Schedule, and Save. The main content area is titled 'New Routes' and 'Disc. Routes'. It displays a table with the following data:

Carrier	Origin	Destination	Capacity	Frequency
BA	BDS	LHR	6089	37
BA	BRE	LCY	9920	310
BA	BRE	MAN	6944	217
BA	CMF	STN	686	7
BA	CPT	LGW	275	1
BA	DOH	LHR	47752	217
BA	FLL	LGW	15700	58
BA	INN	LHR	10044	62
BA	LCY	BRE	9920	310
BA	LGW	FLL	15700	58

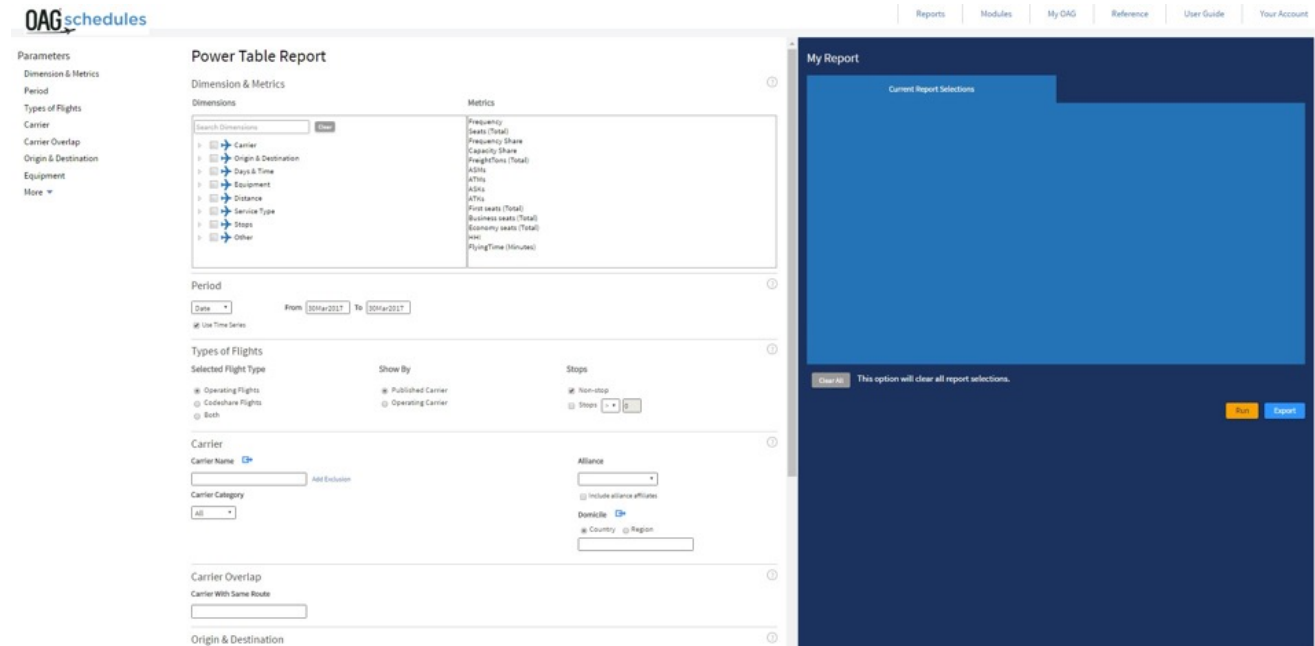
At the bottom of the table, there are navigation icons and a status message: '38 result(s) found, displaying result(s) from 1 to 10. Page 1 / 4'.

The user guide link from Schedules Analyser for this report takes you to our website where there is a short video with a worked example of how to create a schedule changes report.

### 3. Reports

#### 3.4 Power Table Report

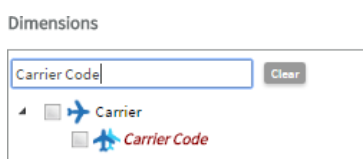
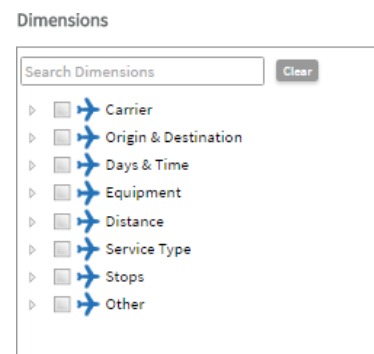
The Schedules Power Table is the most flexible feature of Schedules Analyser. It allows you to fully customise a report from scratch. The report is structured in a similar way to an Excel pivot table, allowing you to select data in different ways to slice the data.



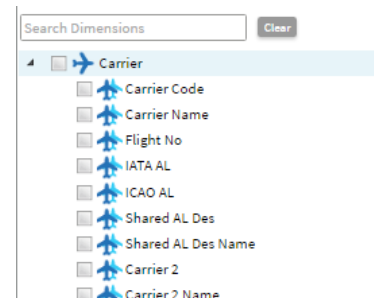
The query page is similar to the previous reports but much more detailed, as the data can be ordered in so many more ways and there is no pre-determined format for this report.

The first field in this report’s parameters are Dimensions and Metrics. It may be helpful to think of the selections you make in the power table as creating a table with this structure – with **dimensions** acting as the rows and columns that your data will be grouped into and the **metrics** providing the data to populate the columns.

There are 8 dimension headings and clicking on the arrow next to the box opens up the dimension to show all of the sub categories and clicking on the box next to the heading e.g. Carrier, selects all the sub categories in that dimension, or you can scroll down and select just the categories you need.



If you know what field you are looking for you can enter it into the ‘Search Dimensions’ box at the top and it will exclude the ones you don’t need. You still need to click on the box to add the field you have searched for.



### 3. Reports

Each dimension heading has numerous sub categories so using the search field can be helpful. On the right of dimensions there are metrics. There are 14 options and all, or any combination of these can be selected. Be cautious of selecting more than you need as this could result in a very large report.

#### Metrics

- Frequency
- Seats (Total)
- Frequency Share
- Capacity Share
- FreightTons (Total)
- ASMs
- ATMs
- ASKs
- ATKs
- First seats (Total)
- Business seats (Total)
- Economy seats (Total)
- HHI
- FlyingTime (Minutes)

Below the Dimensions, Metrics and Categories section there are similar options to the other reports which we have covered in earlier sections. All of these other selections operate in the same way as previously described.

Once you have built the report with the dimensions and metrics you need, you simply click on **Run**. You will notice that there is just one tab in the My Report section, **Current Report Selections**. The outputs in the power table are different too. There are no graph or map options, just a data table, to allow you to then export and manipulate the data you need in whatever way required. A typical power table output would look like this:

The screenshot shows the OAG Schedules Analyser interface. At the top, there are navigation links: Reports, Modules, My OAG, Reference, User Guide, and Your Account. Below these are action buttons: Back to report fields, Export, Save Job Receipt, Schedule, and Save. The main content area displays a table with the following data:

Carrier Name	Seats (Total)	Frequency	TimeSeries
AB Aviation	300	10	2017-03-30
Aegean Airlines	10,070	114	2017-03-30
Aero VIP	357	19	2017-03-30
Aerolink Uganda Ltd	77	7	2017-03-30
Aeropostal Alas de Venezuela S.A.	3,200	20	2017-03-30
Air Arabia	30,552	102	2017-03-30
Air Arabia Jordan	672	4	2017-03-30
Air Arabia Maroc	4,672	28	2017-03-30
Air Burkina	804	13	2017-03-30
Air Canada	175,057	1,669	2017-03-30

At the bottom of the table, there are navigation icons and a status message: "611 result(s) found, displaying result(s) from 1 to 10. Page 1 / 62".

As before, you can click on the back to report fields to amend the structure or data requested in the report, or you can select any of the other fields to either export, schedule or save this query.

As previously noted, if the data you have requested results in less than 1,000 rows you can click on the paper image at the bottom right of the table to download it straight to a CSV file. If the report is larger than 1,000 rows, exporting will send it to the job bin to be processed and it can then be downloaded in your preferred format from there.

You can also expand the rows that are displayed in this output (and can do this in any of the other reports). You can select 10, 25, 50 or 100 rows to be displayed. You can also filter results by entering a relevant term e.g. airline code, airline

The screenshot shows a close-up of the 'Number of rows per page' dropdown menu. The menu is open, showing the following options: 10, 25, 50, and 100. The current selection is 10. The background shows the table from the previous screenshot, with the 'Number of rows per page' dropdown menu open over it.

### 3. Reports

name, airport name, etc. in the **Filter Results** box and the results will be displayed in the table. After filtering, again if the results run to less than 1,000 rows, you can select the paper icon to download just what you see on the screen, i.e. the filtered results.

When you export the power table, the full power table results will be shown, regardless of any filter you have added.

The user guide link from Schedules Analyser for this report takes you to our website where there is a short video with a worked example of how to create a power table report.

#### 3.5 Top X Report

The Top X Report is another customisable report, allowing you to consider a range of data by the Top 10, Top 20, Top 1000 (you can show anything from the Top 1 – 1000). The report is structured in a similar way to the power table query page.

The screenshot shows the 'Top X Report' configuration page in the OAG Schedules Analyser. On the left is a 'Parameters' sidebar with categories: Dimensions and Metrics, Period, Types of Flights, Carrier, Origin & Destination, Equipment, and More. The main area is titled 'Top X Report' and contains several sections: 1. 'Top' value: A text input with '10' and '(Max = 1,000)'. 2. 'Dimensions': A box containing 'Carriers', 'Departure Airport', 'Arrival Airport', 'Routes', and 'Equipment'. 3. 'Metrics': A box containing 'Seats (Total)', 'Frequency', 'ASMs', 'ATMs', and 'Tonnage'. 4. 'Period': A date range selector with 'From' and 'To' fields, both set to '30Mar2017'. 5. 'Types of Flights': Includes 'Selected Flight Type' (radio buttons for Operating, Codeshare, Both), 'Show By' (radio buttons for Published Carrier, Operating Carrier), and 'Stops' (checkbox for Non stop, a dropdown for Stops set to '0'). 6. 'Carrier': Includes 'Carrier Name' (text input with 'Add Exclusion' link), 'Carrier Category' (dropdown set to 'All'), 'Alliance' (dropdown), 'Include alliance affiliates' (checkbox), and 'Domicile' (radio buttons for Country, Region with a text input). 7. 'Origin & Destination': Includes 'Origin' and 'Destination' (radio buttons for Airport, City, Country, Region with text inputs), 'Add Exclusion' links, 'Direction' (dropdown set to 'One Way'), and 'Domestic / International' (dropdown set to 'All').

In this report there are just 5 dimensions to choose from (carriers, departureairport, etc) and 7 different criteria (Seats (Total), Frequency, etc) to slice the data by. To select **dimensions and metrics** in this report, you click on them. Once you've done that you simply click on **Run** and the results are displayed as shown in the example below.

### 3. Reports

More than one dimension and metric can be selected and like the Schedule Changes report, you can toggle between the results. The categories will be displayed side by side and when you export this report, each table will be displayed on a separate worksheet in Excel.

The screenshot shows the OAG Schedules Analyser interface. At the top, there is a navigation bar with links for Reports, Modules, My OAG, Reference, User Guide, and Your Account. Below the navigation bar, there are several action buttons: Back to report fields, Export, Save Job Receipt, Schedule, and Save. The main content area displays a report titled 'Seats (Total)' with a table of routes and seat counts. The table has three columns: Rank, Route, and Seats (Total). The data is as follows:

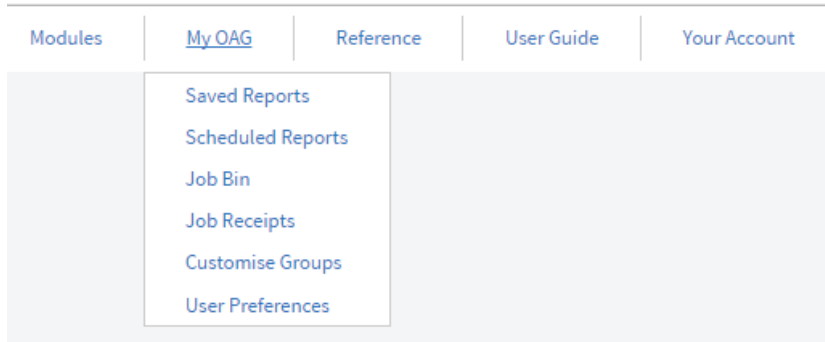
Rank	Route	Seats (Total)
1	CTS   HND	16,179
2	FUK   HND	16,069
3	HND   CTS	16,035
4	HND   FUK	15,919
5	SYD   MEL	15,883
6	MEL   SYD	15,342
7	CJU   GMP	14,706
8	GMP   CJU	14,461
9	BOM   DEL	11,871
10	DEL   BOM	11,556

The user guide link from Schedules Analyser for this report takes you to our website where there is a short video with a worked example of how to create a power table report.

## 4. My OAG

In this section we take a look at some of the general functions that run across Schedules Analyser. These include the ability to save reports; run scheduled reports at a certain time regularly; and to customise groups of information to make running reports with similar query types easier. You can pre-set report preferences too so that what you want to see is what is always returned.

These are all useful steps that should help you to make the most of your Analyser experience.



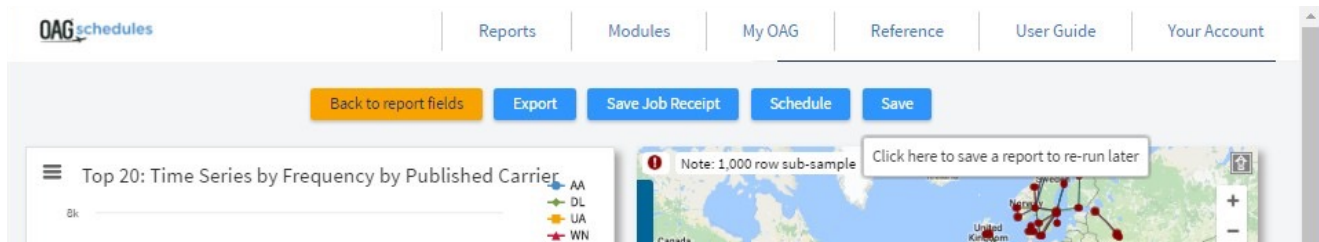
In the table below we identify what each field can be used for:

My OAG Fields	What can I use it for?
Saved Reports	Save reports to allow them to be run again
Scheduled Reports	Schedule reports to run regularly e.g. daily, weekly, etc.
Job Bin	Collecting reports once they have been processed
Job Receipts	View job receipts
Customise Groups	Set up a range of criteria to suit your needs
Airline	Set up pre-set airline groups e.g. LCCs, Alliances, etc
Airport	Set up pre-set airport groups e.g. by ownership or other criteria
City	Set up pre-set city groups e.g. capital cities
Country	Set up pre-set country groups e.g. EU countries or ASEAN countries
Region	Set up pre-set region groups e.g. Latin America, Africa, etc
Equipment	Set up pre-set aircraft type groups e.g. Long haul aircraft, etc
User Preferences	Set up default preferences across a range of functions

## 4. My OAG

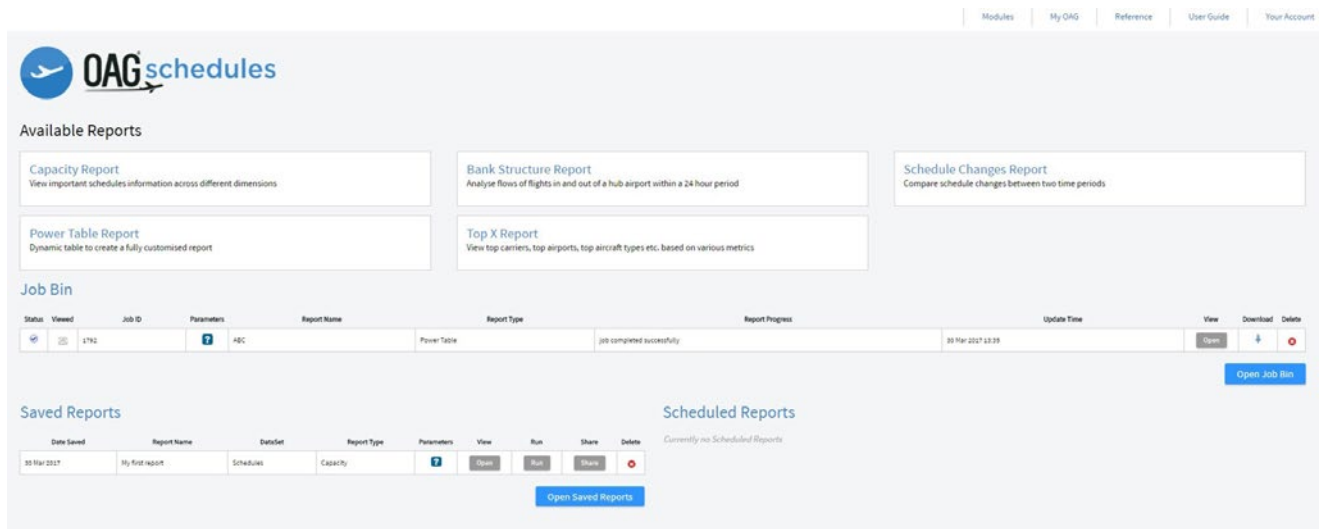
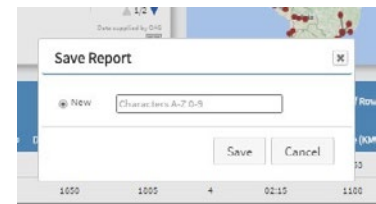
### 4.1 Saving Reports

Saving a report and naming it means you can return at any time and rerun the report based on your original query, or amend some of the details and revisit it. To save a report in any of the Schedules Analyser reports you simply click on **Save** which is located above the report outputs, next to Schedule.



This opens a box, as shown in the screenshot below and all you need to do is enter a name for the report and then click on **Save**.

Once you've saved a report, you can view it from the Schedules Analyser home page as displayed below. In the example below we've called the report 'My first report' and you can see it then appears in the **Saved Reports** summary.



You can then click on open to view the save report, run to run it, or share to email it onto a colleague or customer. Reports can be deleted here too. Clicking on the blue **Open Saved Reports** box takes you to the Saved Reports screen. You can also click through to Saved Reports from the My OAG link at the top of the screen.



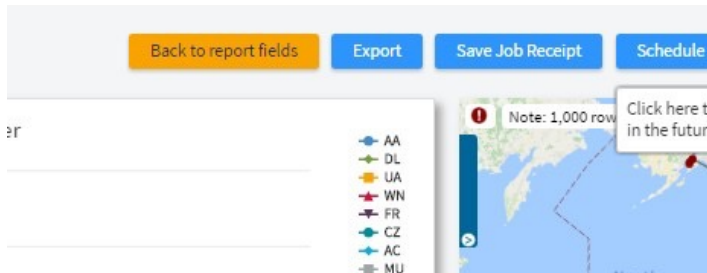
To rerun the report you simply click on **run**, or **open** if you need to edit it.



## 4. My OAG

### 4.2 Scheduling Reports

As well as saving reports you can schedule them to be run regularly and emailed to a single or multiple addresses on a daily, weekly, monthly or quarterly basis.

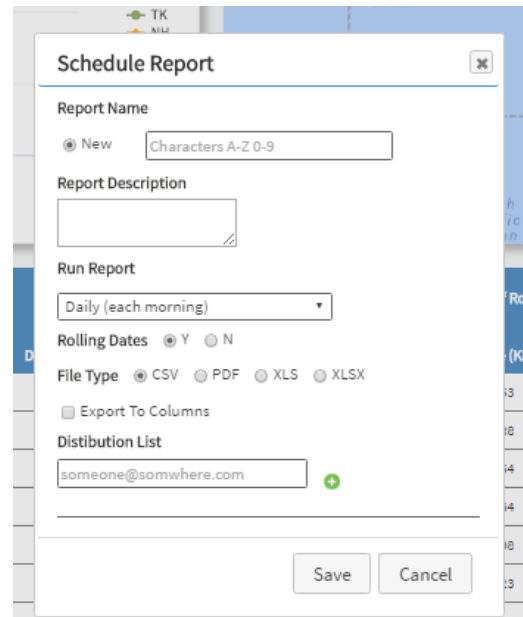


Clicking on **schedule** opens the following box: You give the report a name, and can add a description – useful if you are sending this onto other people, and then select the frequency you need. There are 5 different time options and the report will run at this frequency until you delete it.

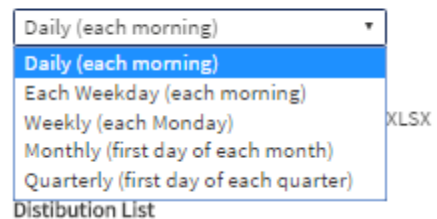
You can then select rolling dates which is the default, or uncheck that, and the required output format. Finally, add the email addresses you want the report distributed to and click save.

The report then appears in your scheduled reports summary on the home page and can also be accessed (in the same way as saved reports) either by clicking on the blue box with **Open Scheduled Reports** or by going via the My OAG section at the top of the screen.

You can click on **open** to view the parameters in the scheduled report, or on **edit** to change them.



#### Run Report





## 4. My OAG

### 4.3 Customising Data

A helpful feature in OAG Analyser is the ability to set up groups of data – you can do this for carriers, airports, cities, countries, regions and equipment. The process for setting up these different types of groups is exactly the same.

#### Customise Groups

Select a group type:  Airline  Airport  City  Country  Region  Equipment

Groups : Carrier

Create or Edit Group

Search by Carrier

Or enter multiple carriers in the following format

AA,DL,UA,BA  
or  
AA  
DL  
UA  
BA

Save Group

New   Existing

Saved Groups

Showing 1 - 2 Of 2 Results Number Of Rows Per Page

Name	Carrier Selection	Last Updated At	Created At	Add	Delete
European LCCs	4U,DE,EW,FR,HV,LS,TO,U2...	Mar 20 2017, 12:13	Mar 20 2017, 12:13	<input type="button" value="Add"/>	<input type="button" value="Delete"/>
My 1st Group	AA,DL,UA	Mar 21 2017, 15:55	Mar 21 2017, 15:55	<input type="button" value="Add"/>	<input type="button" value="Delete"/>

2 result(s) found, displaying result(s) from 1 to 2. Page 1 / 1

We'll run through an example of how to set up a carrier group in the steps below:

At the top, select the type of group you want

#### Customise Groups

Select a group type:  Airline  Airport  City  Country  Region  Equipment

Then, in the Create or Edit group box, start to enter the names of the carriers (or airports, cities, etc) that you want to add to the group. You can add them one by one, or copy in a list from elsewhere, provided it matches the format described in the box.

Then, type in a name for the group in the new box and click on **Save**. The group will then appear in your list of Saved Groups. The process to save a group is the same across all of the rest of the group types.

Create or Edit Group

Search by Carrier

Or enter multiple carriers in the following format

AA,DL,UA,BA  
or  
AA  
DL  
UA  
BA

#### Save Group

New   Existing

Saved Groups

Showing 1 - 3 Of 3 Results Number Of Rows Per Page

Name	Carrier Selection	Last Updated At	Created At	Add	Delete
European LCCs	4U,DE,EW,FR,HV,LS,TO,U2...	Mar 20 2017, 12:13	Mar 20 2017, 12:13	<input type="button" value="Add"/>	<input type="button" value="Delete"/>
My 1st Group	AA,DL,UA	Mar 21 2017, 15:55	Mar 21 2017, 15:55	<input type="button" value="Add"/>	<input type="button" value="Delete"/>
US Majors	AA,DL,UA	Mar 30 2017, 10:15	Mar 30 2017, 10:15	<input type="button" value="Add"/>	<input type="button" value="Delete"/>

3 result(s) found, displaying result(s) from 1 to 3. Page 1 / 1

## 4. My OAG

### 4.4 User Preferences

The last function in My OAG is that you can set up several default preferences across a range of functions, depending on how you wish to view results. You can select defaults for Export File Types,

Distance Measurement, Service Type, Flight Type, Carrier Category, Period, Alliance, Equipment Group and Cabin Type, Show Map and Google Map Regions.

Whatever you select here will be pre-set into your reports, so it's worth bearing that in mind when preselecting preferences. You simply click on your preferred option and then click **Save**. Pre-set preferences can be overridden when running reports by changing the selection in the report.

### User Preferences

#### Export File Type

- Not set
- CSV
- PDF
- XLS
- XLSX

#### Carrier Category

- Not set
- All
- Low-cost
- Mainline

#### Equipment Group

- Not set
- All except Surface
- Amphibious
- Helicopter
- Jet Aircraft
- Piston
- Narrowbody
- Widebody
- Regional Jet
- Surface
- Turboprop

#### Show Map

- Not set
- True
- False

#### Distance Measurement

- Not set
- Kilometres
- Miles
- Nautical Miles

#### Period

- Not set
- Year
- Season
- Quarter
- Month
- Week
- Date

#### Google Map Region

- Not Set
- Inside China
- Outside China

#### Service Type

- Not set
- Passenger
- Cargo
- Both

#### Alliance

- Not set
- Atlantic Excellence
- Global Excellence
- oneworld
- Qualifier Group
- Sky Team Affiliate
- SkyTeam
- Star Alliance
- Wings
- WOW Cargo Alliance

#### Cabin Type

- Not set
- All
- First
- Business
- Economy

#### Flight Type

- Not set
- All
- International
- Domestic

#### Show Graph

- Not set
- True
- False

Save

## 5. Reference

There is also a reference section where you can look up information on airport, airline and aircraft codes; review which carriers are included in each alliance group; check season dates; check which countries fit into each region grouping; check distances between two airports or two cities; and also review minimum connecting times (MCT) between two airports.

This reference section is common across other Analyser products. The reference section is found under Reports and can be accessed either from the main toolbar or from the Schedules Analyser landing page.

We'll take a quick look at some of the reference tables and how they work.

Reference Area	What can I use it for?
<b>Airport Codes</b>	Which airports are located in a city, country or region and what are their three letter codes
<b>Airline Codes</b>	Which carriers operate in which countries and what are their codes
<b>Aircraft Codes</b>	Understanding which aircraft codes belong to which manufacturer
<b>Alliances</b>	Which carriers belong to each alliance, alliance members by country
<b>Seasons</b>	Dates for seasons by winter and summer
<b>Country/Region</b>	Which countries are located in which region
<b>MCT</b>	Understand the minimum connecting time for an airport and/or specific carrier
<b>Distance Calculator</b>	Understand the distance between two airports or cities.

### 5.1 Airport Codes

By selecting a country in the location point, all the airports in that country are displayed, with airport codes, city name and latitude and longitude points. This table can then be exported to Excel. You can also search by airport, by city or by region.

**Airport Codes Report**

Location Point  
 Airport  City  Country  Region  
  Include Bus/Rail Stations

Number of rows per page  [Export to Excel](#)

ATA	Airport Name	City Name	Country Name	WAC State	WAC Sub Country	WAC Country	Longitude	Latitude	Eff From	Eff To
AAM	Mala Mala	Mala Mala	South Africa			582	031.32.41E	24.49.05S	01Aug2001	31Jan2002
AAM	Mala Mala	Mala Mala	South Africa			582	031.32.41E	24.49.05S	01Oct2002	31Dec2020
ALJ	Alexander Bay	Alexander Bay	South Africa			582	016.32.00E	28.34.00S	01Jan1996	31Dec2020
ASS	Arathusa Safari Lodge	Arathusa Safari Lodge	South Africa			582	031.31.06E	24.44.28S	12Jul2015	31Dec2020
BFN	Bloemfontein	Bloemfontein	South Africa			582	026.18.09E	29.05.34S	01Jan1996	31Dec2020
BIY	Bisho	Bisho	South Africa			582	027.17.00E	32.54.00S	01Jan1996	31Dec2020
CPT	Cape Town	Cape Town	South Africa			582	018.36.06E	33.57.53S	01Jan1996	16Dec2013
CPT	Cape Town	Cape Town	South Africa			582	018.36.06E	33.57.53S	17Dec2013	31Dec2020
DUR	Durban Louis Botha Airport	Durban	South Africa				031.06.59E	29.36.52S	01Jan1996	05Jul1996
DUR	Durban King Shaka International Apt	Durban	South Africa			582	031.06.59E	29.36.52S	06Jul1996	31Dec2020

75 airports found, displaying 10 airport(s), from 1 to 10. Page 1 / 8.

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## 5. Reference

### 5.2 Airline Codes

By selecting a country in the location point, all the airports in that country are displayed, with airport codes, city name and latitude and longitude points. This table can then be exported to Excel. You can also search by airport, by city or by region.

**Airline Codes Report**

Carrier:   Low Cost Only

Country:

**Run**

Number of rows per page:

[Export to Excel](#)

IATA	ICAO	Prefix	Airline Name	Country Name	Eff From	Eff To
2F	FAV		Fair Aviation (Pty) Ltd	South Africa	27Nov2018	31Dec2020
4M	DSM	409	African Star Airways	South Africa	01Oct1999	31Dec2000
4M	DSM	409	African Star Airways	South Africa	01Sep2001	31Jan2002
4R			Spurwing Air	South Africa	01Jan1998	03May1998
4Z	LNK	749	South African Airlink	South Africa	30Mar1998	02May1997
4Z	LNK	749	SA Airlink	South Africa	03May1997	05Jun2012
4Z	LNK	749	South African Airlink	South Africa	06Jul2012	31Dec2020
5T	MPE	518	Airlink	South Africa	01Jan1998	30May1997
5Z	KEM		Cemair	South Africa	17Feb2014	31Dec2020
8P	VOS	478	Gryphon Airlines	South Africa	01Sep2011	31Dec2020

64 airlines found, displaying 10 airline(s), from 1 to 10. Page 1 / 7.

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### 5.2 Aircraft Codes

If you wanted to know all of an aircraft manufacturer's aircraft codes and types, you can key in the name e.g. Boeing or Airbus and all results will be displayed.

You can do the same by aircraft type e.g. 787 or 380

**Aircraft Codes Report**

Equipment:

Manufacturer:

**Run**

Number of rows per page:

[Export to Excel](#)

IATA	Manufacturer	Air Name	Cat Name	Eff From	Eff To
703	Boeing	Boeing 707-320-320B-320C (Passenger)	Pure Jet - Narrow body	01Jan1998	31Dec2020
707	Boeing	Boeing 707 Passenger all Series	Pure Jet - Narrow body	01Jan1998	31Dec2000
707	Boeing	Boeing 707 Passenger all Series	Pure Jet - Narrow body	01Oct2001	31Oct2001
707	Boeing	Boeing 707-720 Passenger	Pure Jet - Narrow body	01Jun2003	31Dec2020
70P	Boeing	Boeing 707 (Freighter)	Pure Jet - Narrow body	01Jan1998	31Jan2003
70P	Boeing	Boeing 707-320B-320C (Freighter)	Pure Jet - Narrow body	01Feb2003	31Dec2020
70M	Boeing	Boeing 707 (Mixed Config)	Pure Jet - Narrow body	01Jan1998	30Nov1998
70M	Boeing	Boeing 707 (Mixed Config)	Pure Jet - Narrow body	01Aug1999	31Dec2020
717	Boeing	Boeing 717	Pure Jet - Narrow body	01Oct1998	31Jan2003
717	Boeing	Boeing 717-200	Pure Jet - Narrow body	01Feb2003	31Dec2020

181 aircraft found, displaying 10 aircraft(s), from 1 to 10. Page 1 / 18.

**Aircraft Codes Report**

Equipment:

Manufacturer:

**Run**

Number of rows per page:

[Export to Excel](#)

IATA	Manufacturer	Air Name	Cat Name	Eff From	Eff To
380	Airbus Industrie	Airbus A380-800 Passenger	Pure Jet - Wide body	01Oct2007	31Dec2020

1 aircraft found, displaying 1 aircraft(s), from 1 to 1. Page 1 / 1.

## 5. Reference

### 5.4 Alliance Codes

This reference report allows you to search by alliance – which returns all the carriers in each alliance; or by carrier, or by country. Like previous reports this data can be exported to Excel for future reference.

**Alliance Codes Report**

Search filters: Alliance: oneworld, Carrier: Atlantic Excellence, Global Excellence, Country: oneworld. **Run** button. Number of rows per page: 20. [Export to Excel](#)

Alliance	IATA	Airline Name	Active	Affiliate	Host Country	Eff From	Eff To
oneworld	AA	American Airlines	Yes	No	USA	01Feb1999	31Dec2020
oneworld	AB	Air Berlin	Yes	No	Germany	26Mar2012	31Dec2020
oneworld	AY	Finnair	Yes	No	Finland	01Sep1999	31Dec2020
oneworld	BA	British Airways	Yes	No	United Kingdom	01Feb1999	31Dec2020
oneworld	CP	Canadian Airlines	No	No	Canada	01Feb1999	01Jun2000
oneworld	CX	Cathay Pacific					
oneworld	EI	Aer Lingus					
oneworld	IB	Iberia					
oneworld	IT	Kingfisher Air					

42 alliances found, displaying 10 rows.

---

**Alliance Codes Report**

Search filters: Alliance, Carrier: South African Airways (SA), Country. **Run** button. Number of rows per page: 20. [Export to Excel](#)

Alliance	IATA	Airline Name	Active	Affiliate	Host Country	Eff From	Eff To
Star Alliance	SA	South African Airways	Yes	No	South Africa	10Apr2006	31Dec2020

1 alliances found, displaying 1 alliance(s), from 1 to 1. Page 1 / 1.

### 5.5 Seasons

This reference report allows you to establish the start and end dates of summer and winter seasons going back to 1996. You simply select the season you want and the years and the dates are displayed.

**Seasons Report**

Search filters: Season: Summer, From Year: 2013, To Year: 2014. **Run** button. Number of rows per page: 10. [Export to Excel](#)

Season	From Date	To Date
Summer	31Mar2013	26Oct2013
Summer	30Mar2014	25Oct2014

2 seasons found, displaying 2 season(s), from 1 to 2. Page 1 / 1.

### 5.6 Country/Region Codes

This reference report allows you to establish what countries are included in a region – either by searching for a region or by a specific country.

**Country / Region Codes Report**

Search filters: Location Point: Africa : Southern Africa (AF2). **Run** button. Number of rows per page: 10. [Export to Excel](#)

Country Code	Country Name	DOT Country Code	Long(dec)	Lat(dec)	Region Code	Region Name	Eff From	Eff To
AO	Angola	502	18.0	-12.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
BW	Botswana	510	25.0	-22.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
LS	Lesotho	536	28.0	-30.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
MW	Malawi	542	34.0	-13.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
MZ	Mozambique	550	35.0	-18.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
NA	Namibia	575	17.0	-22.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
SZ	Swaziland	582	32.0	-27.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
ZA	South Africa	562	24.0	-28.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
ZM	Zambia	597	26.0	-15.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020
ZW	Zimbabwe	565	29.0	-19.0	AF2	Africa : Southern Africa	01Jan1996	31Dec2020

10 ctry/region found, displaying 10 ctry(region)s, from 1 to 10. Page 1 / 1.

## 5. Reference

### 5.7 MCT - Minimum Connection Times

With this report you can query the minimum connecting time by airport and/or by carrier. Results are displayed by sector type and for active connections at the query airport.

#### MCT Lookup Report

Airport:   
 Carrier:

Minimum connect times for: Johannesburg International (JNB)  
Minimum connect times as at: 20-02-2014

World-wide Industry Defaults

Type	MCT Status	MCT Time
Inter-Airport	DOM-DOM	20
	DOM-INT	60
	INT-INT	60
Intra-Airport	DOM-DOM	240
	DOM-INT	240
	INT-INT	240

Defaults

MCT Time (min)	Airports	Terminal to Terminal	MCT Status
60	JNB		DOMESTIC TO DOMESTIC
90	JNB		DOMESTIC TO INTERNATIONAL
90	JNB		INTERNATIONAL TO DOMESTIC

3 result(s) found, displaying 3 result(s), from 1 to 3. Page 1 / 1

3 result(s) found, displaying 3 result(s), from 1 to 3. Page 1 / 1

Exceptions

Number of rows per page:

Arrival Airport Code	MCT Time (min)	MCT Status	Departure Airport Code	Arrival Airline Code	Incoming Flight Number(s)	Departure Airline Code	Outgoing Flight Number(s)
JNB	90	DOMESTIC TO INTERNA		SA -South African Airways		SV -Saudi Arabian Airlines	
JNB	90	INTERNA TO DOMESTIC		SV -Saudi Arabian Airlines		SA -South African Airways	
JNB	45	INTERNA TO INTERNA		SA -South African Airways	0145-	SA -South African Airways	0207-
JNB	45	INTERNA TO INTERNA		SA -South African Airways	0145-	UA -United Airlines	7917-
JNB	90	INTERNA TO INTERNA		SA -South African Airways	7160-7166	SA -South African Airways	
JNB	90	INTERNA TO INTERNA		SA -South African Airways	8103-	SA -South African Airways	
JNB	90	INTERNA TO INTERNA		SA -South African Airways	8169-	SA -South African Airways	
JNB	90	INTERNA TO INTERNA		SA -South African Airways	8165-	SA -South African Airways	
JNB	75	INTERNA TO INTERNA		AF -Air France		SA -South African Airways	
JNB	90	INTERNA TO INTERNA		VS -Virgin Atlantic Airways		SA -South African Airways	

3 result(s) found, displaying 3 result(s), from 1 to 3. Page 1 / 1

### 5.8 Distance Calculator

This reference report allows you to query the distance in miles, kilometres or nautical miles, between two airports or cities.

#### Distance Calculator

Type of Calculation:  Origin and Destination  Path

Origin:  Airport  City

Path:  Airport  City

Destination:  Airport  City

Units:

Result from Johannesburg International to Cape Town in M

From	To	Distance
Johannesburg International	Cape Town	790 M

export low res export hi res

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