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THE DYNAMIC WORLD OF SCHEDULES DATA

The Implications For Air Service Development Analysis

MAKE SMARTER MOVES

INTRODUCTION

Airline schedules data is the backbone of all other data sets.

All of us in this room are here because of airline schedules that were pitched, discussed, negotiated, and implemented, and changed - through Air Service Development meetings year(s) prior to today.

OAG has been receiving and distributing airline schedules since 1929, and still maintains a digital library of schedules data going back 40 years.

The process of taking in airline schedules from over 900 airlines around the world is a constantly moving and complex process.

The objective is to help explain, understand, and simplify the fundamentals of airline schedules data and air service development.

THE EVOLUTION OF SCHEDULES DATA

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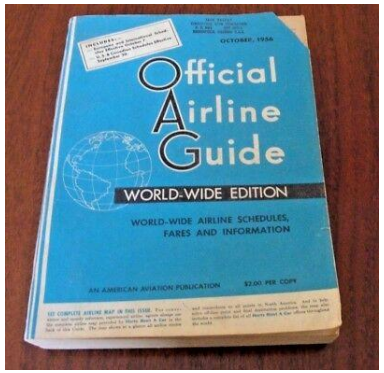
1950's

Government regulated
air services, bi-laterals,
schedules filed by post or
SITA messages



1960's

Bi-laterals expanded.
schedules adjusted twice
yearly.
Telex messages
increasingly used

1970's

Some deregulation.
Magnetic tapes accepted
for schedules filing
Schedules change still limited

1980's

Airline competition develops
Schedules seen as major tool
In GDS/Marketing systems
Still using tapes/telex
and paper!

1990's

Electronic filing introduced
GDS's update more frequently
Schedule changes still quite
Seasonal in most markets

2000's

LCC's grow rapidly!
Schedules change frequently
Many GDS's update daily
We still get paper schedules!

2010's

Dynamic scheduling launched
Daily schedule changes
GDS's capable of dynamic changes
And we still get some paper!

2020's

Constant schedule changes
Immediate updates
Rapidly changing market
And we expect some paper!

HOW MUCH INFO IS IN AIRLINE SCHEDULES DATA?

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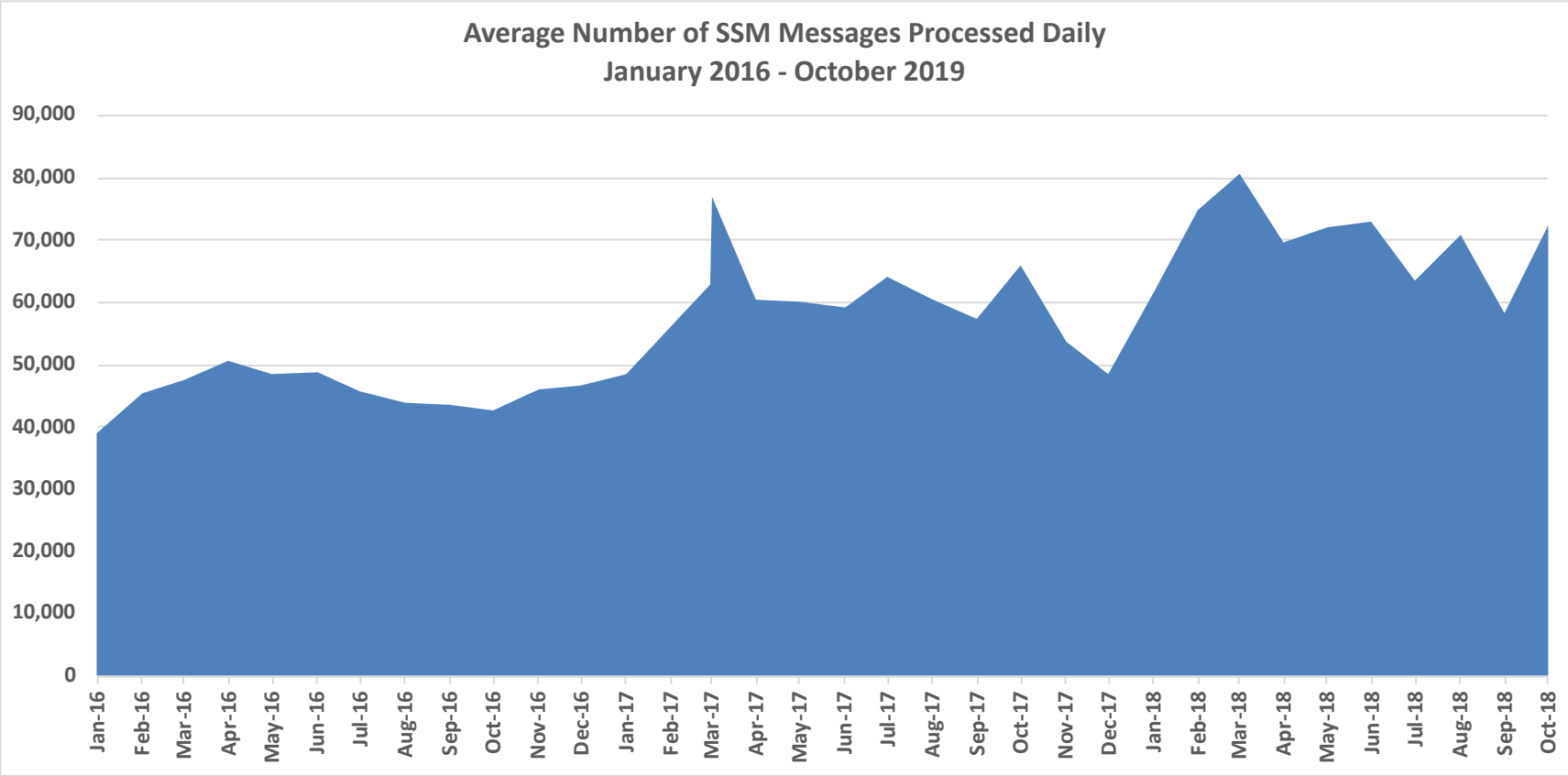
Field	Field Name	Type
1.	Carrier Code	Text
2.	Carrier Code ICAO	Text
3.	Service Number	Text
4.	Operational Suffix	Text
5.	Departure Port Code	Text
6.	Departure Port Code ICAO	Text
7.	Departure Terminal	Text
8.	Departure City Code	Text
9.	Departure Country Code	Text
10.	Arrival Port Code	Text
11.	Arrival Port Code ICAO	Text
12.	Arrival Terminal	Text
13.	Arrival City Code	Text
14.	Arrival Country Code	Text
15.	Departure Time	Text
16.	Arrival Time	Text
17.	Arrival Day	Text
18.	Elapsed Journey Time	Text
19.	Days Of Operation	Text
20.	Effective From Date	Text
21.	Effective To Date	Text
22.	Stops	Numeric
23.	General Equipment Type	Text
24.	Specific Equipment Type	Text
25.	Specific Equipment Type ICAO	Text
26.	Equipment Change	Text
27.	Service Type	Text
28.	Passenger Classes	Text
29.	Available Total Seats	Numeric
30.	Available First Class Seats	Numeric
31.	Available Business Class Seats	Numeric
32.	Available Premium Economy Class Seats	Numeric
33.	Available Economy Class Seats	Numeric
34.	Meals	Text
35.	Freight Classes	Text
36.	Freight Tons	Numeric
37.	Comment 010/050	Text
38.	Operating/Non-Operating Marker	Text
39.	Ghost Flight	Text
40.	Duplicate Services	Text
41.	Shared Airline Designator Code	Text
42.	Shared Airline Designator Name	Text
43.	Equipment Owner	Text
44.	Restriction	Text
45.	Domestic/International MCT Marker	Text
46.	Full Routing	Text
47.	Longest Sector	Text
48.	Intermediate Ports	Text
49.	Distance	Numeric
50.	Government Approval	Text
51.	Inflight Service	Text
52.	Secure Flight	Text

DAILY SCHEDULE CHANGES PROCESSED

- On average we process some 58,000 schedule changes a day.
- That's the equivalent to a schedule change every 1.5 seconds!
- Those changes can be a change of capacity, schedule, aircraft type, airport terminal, new and discontinued routes etc…



MAKE SMARTER MOVES

OUR DATA AND AIR SERVICE DEVELOPMENT

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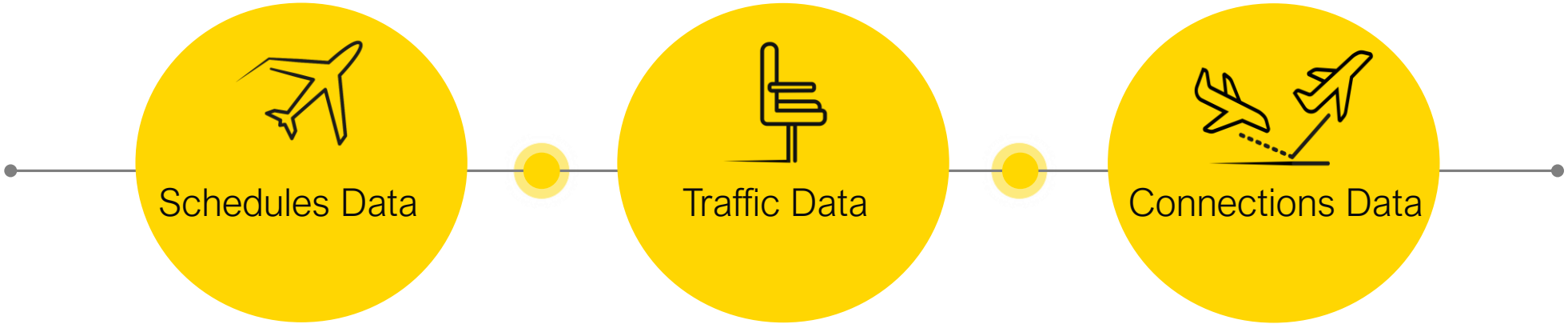

WHY DO YOU NEED SCHEDULES DATA? WHY IS IT IMPORTANT IN ASD?

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Frequencies change very quickly – an example:

- In twelve months there were 5 frequency changes and one new carrier on LAX – SFO
- Airlines drop and add frequencies in response to competitive activity
- Alternate services are always available for poorly performing services

When frequencies change scheduled departure times can change as well:

Airline	07-Jan	04-Feb	04-Mar	01-Apr	06-May	06-Jun	01-Jul	05-Aug	02-Sep	07-Oct	04-Nov	02-Dec
Alaska Airlines	10	10	10	10	10	10	10	10	10	10	11	10
American Airlines	12	12	12	12	12	12	8	8	8	8	9	8
Delta Air Lines	8	8	8	8	8	8	8	8	8	8	8	8
Southwest Airlines						7	7	7	6	6	6	6
United Airlines	12	12	12	12	12	12	12	12	12	12	11	12

RAPIDLY CHANGING SCHEDULES

- We tracked scheduled departure times between LAX – SFO for Monday 2nd December 2019.
- Between the 1st April & 2nd September, 12 flights had schedule changes applied.
- Nearly 30% of flights saw a change of timing.
- And each change will have had ripple effect on connecting opportunities at each airport – directly affecting many other scheduled routes.

1st April For 2nd December Travel			2nd September For 2nd December Travel	
Carrier Name	Local Dep Time		Carrier Name	Local Dep Time
Alaska Airlines	630		Southwest Airlines	600
American Airlines	630		Alaska Airlines	630
United Airlines	630		United Airlines	630
Delta Air Lines	700		Delta Air Lines	700
American Airlines	800		United Airlines	800
United Airlines	800		American Airlines	821
Alaska Airlines	830		Southwest Airlines	825
Delta Air Lines	830		Alaska Airlines	830
Alaska Airlines	930		Delta Air Lines	830
American Airlines	930		Alaska Airlines	930
United Airlines	930		United Airlines	930
Delta Air Lines	1000		American Airlines	1000
United Airlines	1045		Delta Air Lines	1029
American Airlines	1100		Southwest Airlines	1030
Alaska Airlines	1130		United Airlines	1045
United Airlines	1215		Alaska Airlines	1130
American Airlines	1230		United Airlines	1215
Delta Air Lines	1245		Southwest Airlines	1225
Alaska Airlines	1330		American Airlines	1230
American Airlines	1400		Delta Air Lines	1259
United Airlines	1400		Alaska Airlines	1330
Delta Air Lines	1520		United Airlines	1400
Alaska Airlines	1530		American Airlines	1445
American Airlines	1530		Southwest Airlines	1450
United Airlines	1530		Delta Air Lines	1507
American Airlines	1700		United Airlines	1525
Delta Air Lines	1700		Alaska Airlines	1530
United Airlines	1700		Alaska Airlines	1630
Alaska Airlines	1730		Southwest Airlines	1645
Alaska Airlines	1830		American Airlines	1700
American Airlines	1830		United Airlines	1700
United Airlines	1830		Delta Air Lines	1725
Delta Air Lines	1900		Alaska Airlines	1730
United Airlines	1945		Alaska Airlines	1830
American Airlines	2000		United Airlines	1830
Alaska Airlines	2030		Delta Air Lines	1945
United Airlines	2045		United Airlines	1945
Delta Air Lines	2050		American Airlines	2000
American Airlines	2130		Alaska Airlines	2100
American Airlines	2245		United Airlines	2100
United Airlines	2245		Delta Air Lines	2120
Alaska Airlines	2300		American Airlines	2130
			United Airlines	2245
			American Airlines	2300

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MAKE SMARTER MOVES

SOME INTERESTING INSIGHTS

Airlines file schedule changes in different ways

One major US carrier makes all their changes on a Saturday……any guesses?

A major European airline makes numerous changes almost daily…..know who?

Chinese airlines tend to file domestic schedules with less than 90 days notice

Low Cost Carriers tend to make more destination changes than schedule changes

Legacy and particularly network carriers adjust schedules by minutes

US schedules work to the minute e.g. Depart 09:33

European schedules work to the “five or ten” e.g. Depart 09:35

CONSTANTLY CHANGING SCHEDULES MEANS…..
CONSTANTLY CHANGING CONNECTIONS

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Airline Schedules are the data are how connections are built.

Many airports rely on connections to provide global access to their communities.

Most major hubs rely on connecting traffic to support their network

Local markets alone are frequently too small for the frequency offered.

A quick connection can make a service successful while a lengthy layover can kill a market flow

It is very important that both airports and airlines understand the impact that changes to connectivity can have on their business.

CONNECTING SCHEDULES ALL HAVE MINIMUM CONNECTING TIMES

Most major airports file their Minimum Connecting Times (MCT)

- Domestic to Domestic
- International to Domestic
- London Heathrow T3 to T5 etc

But airlines file their *exceptions* to the airport defaults and sometimes do not advise the airports concerned.

Regional airports in North America rely on connecting traffic and tight MCT's. If every route in the US saw subtle changes in connectivity like the LAX – SFO example the impact can be huge.

EXAMPLE: TODAY'S "MISSED" SCHEDULED CONNECTIONS AT RSW VIA ATL

OAG CONNECTION ANALYSER
VERSION: 2.0.1. Data load date: 01 Dec 2019

MONTHLY DATED AT 12 2019
REPORT DATED AT: Dec 3-2019. TIME: 15:51 (GMT)

Org Leg1	Car Leg1	Opr Leg1	FltNo Leg1	Equip Leg1	Efect Leg1	DeptTime L	Discon Leg1	ArrTime Le	DaysOf Leg1	Seats Leg1	Gateway	Missed Con	Circuity	MCT Value	Build Type	Des Leg2	Car Leg2	Opr Leg2	FltNo Leg2	Equip Leg2	Efect Leg2	DeptTime L	Discon Leg	ArrTime Le	DaysOf Leg2	Seats Leg2	Phantom L	Complete I	Car Allianc	Stops	Total Time
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-1	107	35	I	DEN	DL	DL	1487	739	2019-12-0	08:19	2019-12-2	09:54	12345	180	N	RSW-ATL-D	ONLINE CA	0	354
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-1	114	35	I	PWM	DL	DL	2230	M90	2019-12-0	21:27	2019-12-1	23:55	1234 7	158	N	RSW-ATL-P	ONLINE CA	0	296
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-1	111	35	I	XNA	DL	9E	4780	CR9	2019-12-0	08:19	2019-12-2	09:24	12345	76	N	RSW-ATL-X	ONLINE CA	0	264
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-2	140	35	I	AGS	DL	9E	5309	CRJ	2019-12-0	17:42	2019-12-0	18:45	23	50	N	RSW-ATL-A	ONLINE CA	0	205
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-2	104	35	I	HSV	DL	DL	2954	717	2019-12-0	10:12	2019-12-2	10:10	12345 7	110	N	RSW-ATL-H	ONLINE CA	0	200
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-2	140	35	I	AGS	DL	DL	2659	717	2019-12-0	19:39	2019-12-2	20:36	12345 7	110	N	RSW-ATL-A	ONLINE CA	0	199
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-2	113	35	I	ALB	DL	DL	2174	320	2019-12-0	21:26	2019-12-1	23:35	1234 7	157	N	RSW-ATL-A	ONLINE CA	0	276
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-2	100	35	I	MSN	DL	DL	738	717	2019-12-0	21:26	2019-12-1	22:35	124 7	110	N	RSW-ATL-M	ONLINE CA	0	276
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-2	114	35	I	BHM	DL	DL	117	M88	2019-12-0	17:42	2019-12-1	17:34	2 4	149	N	RSW-ATL-B	ONLINE CA	0	194
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-2	107	35	I	BUF	DL	DL	2053	M90	2019-12-0	10:12	2019-12-2	12:15	12345	158	N	RSW-ATL-B	ONLINE CA	0	265
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-2	100	35	I	IND	DL	DL	2625	M88	2019-12-0	19:39	2019-12-1	21:11	12345 7	149	N	RSW-ATL-IN	ONLINE CA	0	234
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-3	138	35	I	CAE	DL	DL	2938	717	2019-12-0	17:41	2019-12-1	18:36	2345	110	N	RSW-ATL-C	ONLINE CA	0	196
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-3	102	35	I	STL	DL	DL	2309	M88	2019-12-0	08:17	2019-12-2	09:05	12345	149	N	RSW-ATL-S	ONLINE CA	0	245
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-4	100	35	I	CHA	DL	OO	4058	CRJ	2019-12-0	17:40	2019-12-2	18:33	12345 7	50	N	RSW-ATL-C	ONLINE CA	0	193
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-4	102	35	I	STL	DL	DL	1915	M90	2019-12-0	17:40	2019-12-1	18:23	12345	158	N	RSW-ATL-S	ONLINE CA	0	243
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-4	118	35	I	CHO	DL	9E	5257	CRJ	2019-12-0	21:24	2019-12-1	23:05	12345 7	50	N	RSW-ATL-C	ONLINE CA	0	246
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-4	148	35	I	OAJ	DL	9E	5427	CRJ	2019-12-0	21:24	2019-12-1	22:51	1234 7	50	N	RSW-ATL-O	ONLINE CA	0	232
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-4	116	35	I	LIT	DL	DL	486	M88	2019-12-0	08:16	2019-12-1	08:56	12345	149	N	RSW-ATL-L	ONLINE CA	0	236
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-4	109	35	I	ICT	DL	DL	491	M88	2019-12-0	21:24	2019-12-1	22:47	124 7	149	N	RSW-ATL-IC	ONLINE CA	0	288
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-4	104	35	I	CLE	DL	DL	1307	739	2019-12-0	19:37	2019-12-1	21:26	1234 7	180	N	RSW-ATL-C	ONLINE CA	0	249
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-4	101	35	I	BNA	DL	DL	1613	739	2019-12-0	19:37	2019-12-1	19:46	124 7	180	N	RSW-ATL-B	ONLINE CA	0	209
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-5	100	35	I	ORD	DL	DL	2225	717	2019-12-0	10:09	2019-12-2	11:16	12345	110	N	RSW-ATL-O	ONLINE CA	0	266
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-5	124	35	I	DAL	DL	DL	1186	717	2019-12-0	08:15	2019-12-2	09:35	12345 7	110	N	RSW-ATL-D	ONLINE CA	0	275
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-5	110	35	I	AVL	DL	DL	2233	717	2019-12-0	16:15	2019-12-2	17:12	12345 7	110	N	RSW-ATL-A	ONLINE CA	0	195
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-5	100	35	I	CHA	DL	9E	5388	CR9	2019-12-0	08:15	2019-12-2	09:13	2345	76	N	RSW-ATL-C	ONLINE CA	0	193
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-5	103	35	I	SEA	DL	DL	609	752	2019-12-0	08:15	2019-12-2	11:00	12345	193	N	RSW-ATL-S	ONLINE CA	0	480
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-6	104	35	I	HSV	DL	DL	320	717	2019-12-0	12:59	2019-12-2	12:49	12345 7	110	N	RSW-ATL-H	ONLINE CA	0	182
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-6	124	35	I	DFW	DL	DL	562	321	2019-12-0	12:59	2019-12-2	14:22	12345 7	191	N	RSW-ATL-D	ONLINE CA	0	275
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-6	102	35	I	DSM	DL	DL	1953	M88	2019-12-0	21:22	2019-12-1	22:45	234	149	N	RSW-ATL-D	ONLINE CA	0	286
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-6	114	35	I	BHM	DL	DL	2484	M88	2019-12-0	12:59	2019-12-2	12:50	12345 7	149	N	RSW-ATL-B	ONLINE CA	0	183
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-6	113	35	I	PHX	DL	DL	2167	321	2019-12-0	21:22	2019-12-1	23:43	124 7	191	N	RSW-ATL-P	ONLINE CA	0	404
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-6	101	35	I	LEX	DL	YX	5918	E70	2019-12-0	12:59	2019-12-2	14:13	12345 7	69	N	RSW-ATL-L	ONLINE CA	0	206
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-6	107	35	I	DEN	DL	DL	1355	739	2019-12-0	12:59	2019-12-2	14:26	12345 7	180	N	RSW-ATL-D	ONLINE CA	0	339
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-6	102	35	I	TYS	DL	9E	5015	CR9	2019-12-0	17:38	2019-12-2	18:37	12345 7	76	N	RSW-ATL-T	ONLINE CA	0	197
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-7	101	35	I	LEX	DL	9E	5097	CR9	2019-12-0	16:13	2019-12-2	17:32	12345 7	76	N	RSW-ATL-L	ONLINE CA	0	215
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-7	118	35	I	BWI	DL	DL	1924	739	2019-12-0	21:21	2019-12-1	23:10	1234 7	180	N	RSW-ATL-B	ONLINE CA	0	251
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-7	100	35	I	MKE	DL	DL	1181	738	2019-12-0	12:58	2019-12-0	13:58	2	160	N	RSW-ATL-M	ONLINE CA	0	251
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-7	102	35	I	FNT	DL	DL	766	738	2019-12-0	21:21	2019-12-1	23:20	1234 7	160	N	RSW-ATL-F	ONLINE CA	0	261
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-8	108	35	I	PIT	DL	DL	1154	739	2019-12-0	12:57	2019-12-2	14:32	12345	180	N	RSW-ATL-P	ONLINE CA	0	225
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-8	101	35	I	LEX	DL	9E	5221	CR9	2019-12-0	10:06	2019-12-1	11:29	12345 7	76	N	RSW-ATL-L	ONLINE CA	0	219
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-8	109	35	I	LAS	DL	DL	2187	321	2019-12-0	21:20	2019-12-1	22:59	1234 7	191	N	RSW-ATL-L	ONLINE CA	0	420
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-8	118	35	I	DCA	DL	DL	1160	321	2019-12-0	19:33	2019-12-2	21:15	12345 7	191	N	RSW-ATL-D	ONLINE CA	0	238
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-8	101	35	I	BNA	DL	DL	458	739	2019-12-0	08:12	2019-12-2	08:20	1234567	180	N	RSW-ATL-B	ONLINE CA	0	200
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-8	100	35	I	IND	DL	DL	480	M90	2019-12-0	12:57	2019-12-1	14:29	12345	158	N	RSW-ATL-IN	ONLINE CA	0	222
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-8	116	35	I	BOS	DL	DL	1916	757	2019-12-0	21:20	2019-12-1	23:46	23	199	N	RSW-ATL-B	ONLINE CA	0	287
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-9	111	35	I	SAN	DL	DL	1692	753	2019-12-0	08:11	2019-12-2	10:07	12345	234	N	RSW-ATL-S	ONLINE CA	0	427
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-9	114	35	I	BHM	DL	DL	1129	M88	2019-12-0	21:19	2019-12-1	21:16	12345 7	149	N	RSW-ATL-B	ONLINE CA	0	197
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-9	100	35	I	EVV	DL	9E	5044	CRJ	2019-12-0	21:19	2019-12-1	21:47	12345 7	50	N	RSW-ATL-E	ONLINE CA	0	228
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-9	100	35	I	MSP	DL	DL	569	757	2019-12-0	21:19	2019-12-1	22:58	1234 7	199	N	RSW-ATL-M	ONLINE CA	0	299
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-9	105	35	I	CAK	DL	DL	2613	73W	2019-12-0	21:19	2019-12-0	23:02	2	124	N	RSW-ATL-C	ONLINE CA	0	243
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-9	110	35	I	AVL	DL	OO	3929	CRJ	2019-12-0	08:11	2019-12-2	09:11	12345	50	N	RSW-ATL-A	ONLINE CA	0	191
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-9	118	35	I	DCA	DL	DL	2041	321	2019-12-0	17:35	2019-12-1	19:11	12345	191	N	RSW-ATL-D	ONLINE CA	0	231
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-9	106	35	I	SLC	DL	DL	1372	753	2019-12-0	21:19	2019-12-0	23:39	23	234	N	RSW-ATL-S	ONLINE CA	0	400
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-9	112	35	I	TUL	DL	DL	511	717	2019-12-0	08:11	2019-12-2	09:19	12345	110	N	RSW-ATL-T	ONLINE CA	0	259
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-9	133	35	I	AUS	DL	DL	1248	321	2019-12-0	16:11	2019-12-0	17:40	23	191	N	RSW-ATL-A	ONLINE CA	0	283
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-10	113	35	I	PHX	DL	DL	2354	321	2019-12-0	08:10	2019-12-2	10:37	12345 7	191	N	RSW-ATL-P	ONLINE CA	0	397
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-10	110	35	I	LAX	DL	DL	1944	757	2019-12-0	12:55	2019-12-1	14:54	23	199	N	RSW-ATL-L	ONLINE CA	0	427
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-10	129	35	I	SHV	DL	9E	5385	CRJ	2019-12-0	08:10	2019-12-2	09:14	12345	50	N	RSW-ATL-S	ONLINE CA	0	254
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-10	107	35	I	SFO	DL	DL	2049	753	2019-12-0	08:10	2019-12-1	10:36	2	234	N	RSW-ATL-S	ONLINE CA	0	456
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-10	118	35	I	IAD	DL	DL	2291	M88	2019-12-0	12:55	2019-12-2	14:34	23 5	149	N	RSW-ATL-IA	ONLINE CA	0	227
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-10	107	35	I	BUF	DL	DL	1672	M88	2019-12-0	08:10	2019-12-2	10:12	12345	149	N	RSW-ATL-B	ONLINE CA	0	252
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-10	139	35	I	FAY	DL	OO	4055	CRJ	2019-12-0	08:10	2019-12-2	09:30	12345	50	N	RSW-ATL-F	ONLINE CA	0	210
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-10	111	35	I	MEM	DL	DL	1422	M90	2019-12-0	21:18	2019-12-1	21:45	12345 7	158	N	RSW-ATL-M	ONLINE CA	0	226
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-10	135	35	I	JAN	DL	DL	333	717	2019-12-0	08:10	2019-12-2	08:35	12345	110	N	RSW-ATL-J	ONLINE CA	0	215
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-10	103	35	I	CMH	DL	DL	1069	739	2019-12-0	08:10	2019-12-1	09:45	12345	180	N	RSW-ATL-C	ONLINE CA	0	225
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-11	118	35	I	LGA	DL	DL	2907	321	2019-12-0	19:30	2019-12-1	21:38	2 45 7	191	N	RSW-ATL-L	ONLINE CA	0	261
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-11	100	35	I	BMI	DL	9E	5230	CR9	2019-12-0	10:03	2019-12-0	10:53	2345	76	N	RSW-ATL-B	ONLINE CA	0	243
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-11	103	35	I	OMA	DL	DL	1657	M90	2019-12-0	16:09	2019-12-2	17:42	12345 7	158	N	RSW-ATL-O	ONLINE CA	0	285
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-12	107	35	I	CRW	DL	DL	824	73W	2019-12-0	21:16	2019-12-1	22:40	2345 7	124	N	RSW-ATL-C	ONLINE CA	0	221
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-12	115	35	I	GSP	DL	DL	131	M88	2019-12-0	17:32	2019-12-1	18:24	2 4 7	149	N	RSW-ATL-G	ONLINE CA	0	184
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-12	102	35	I	DTW	DL	DL	443	739	2019-12-0	10:02	2019-12-2	11:58	2345 7	180	N	RSW-ATL-D	ONLINE CA	0	248
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-12	140	35	I	AEX	DL	9E	5010	CRJ	2019-12-0	21:16	2019-12-2	22:10	12345 7	50	N	RSW-ATL-A	ONLINE CA	0	251
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-12	111	35	I	SNA	DL	DL	2469	757	2019-12-0	19:29	2019-12-2	21:26	12345 7	199	N	RSW-ATL-S	ONLINE CA	0	429
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-13	135	35	I	JAN	DL	DL	776	717	2019-12-0	10:01	2019-12-2	10:26	12345 7	110	N	RSW-ATL-J	ONLINE CA	0	216
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-13	138	35	I	CAE	DL	DL	2420	717	2019-12-0	16:07	2019-12-2	17:04	2345	110	N	RSW-ATL-C	ONLINE CA	0	187
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-13	109	35	I	LAS	DL	DL	1922	321	2019-12-0	10:01	2019-12-1	11:36	12345 7	191	N	RSW-ATL-L	ONLINE CA	0	406
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-13	106	35	I	SLC	DL	DL	1818	321	2019-12-0	19:28	2019-12-1	21:44	124 7	191	N	RSW-ATL-S	ONLINE CA	0	387
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-14	105	35	I	CAK	DL	9E	5166	CR9	2019-12-0	10:00	2019-12-2	11:43	12345 7	76	N	RSW-ATL-C	ONLINE CA	0	233
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-14	114	35	I	OKC	DL	DL	1094	M88	2019-12-0	21:14	2019-12-1	22:41	2	149	N	RSW-ATL-O	ONLINE CA	0	282
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-14	100	35	I	BMI	DL	9E	5226	CR9	2019-12-0	21:14	2019-12-1	22:06	1234 7	76	N	RSW-ATL-B	ONLINE CA	0	247
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-14	118	35	I	LGA	DL	DL	1886	321	2019-12-0	17:30	2019-12-2	19:41	12345 7	191	N	RSW-ATL-L	ONLINE CA	0	261
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-14	104	35	I	CLE	DL	DL	1474	M90	2019-12-0	10:00	2019-12-2	11:45	12345 7	158	N	RSW-ATL-C	ONLINE CA	0	235
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-14	134	35	I	SAT	DL	DL	2495	M90	2019-12-0	16:06	2019-12-2	17:46	12345 7	158	N	RSW-ATL-S	ONLINE CA	0	289
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-14	100	35	I	MDW	DL	DL	1608	73W	2019-12-0	21:14	2019-12-1	22:12	12345 7	124	N	RSW-ATL-M	ONLINE CA	0	253
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-15	105	35	I	MCI	DL	DL	1926	757	2019-12-0	21:13	2019-12-1	22:28	1234 7	199	N	RSW-ATL-M	ONLINE CA	0	269
RSW	DL	DL	2195	757	2019-12-03	06:00	2019-12-03	07:45	12345 7	199	ATL	-16	106	35	I	SLC	DL	DL	1105	76W	2019-12-0	08:04	2019-12-2	10:30	12345	226	N	RSW-ATL-S	ONLINE CA	0	390
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-17	100	35	I	MKE	DL	DL	1680	739	2019-12-0	19:24	2019-12-1	20:27	124 7	180	N	RSW-ATL-M	ONLINE CA	0	250
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-17	100	35	I	MSP	DL	DL	993	739	2019-12-0	19:24	2019-12-1	21:01	12345 7	180	N	RSW-ATL-M	ONLINE CA	0	284
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-17	110	35	I	LAX	DL	DL	1323	321	2019-12-0	09:57	2019-12-0	12:01	2	191	N	RSW-ATL-L	ONLINE CA	0	431
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-17	103	35	I	OMA	DL	DL	821	M88	2019-12-0	19:24	2019-12-1	20:58	12345 7	149	N	RSW-ATL-O	ONLINE CA	0	281
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-17	128	35	I	PHF	DL	9E	5002	CR9	2019-12-0	09:57	2019-12-2	11:40	12345 7	76	N	RSW-ATL-P	ONLINE CA	0	230
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-18	118	35	I	EWR	DL	DL	2487	739	2019-12-0	09:56	2019-12-1	12:01	12345 7	180	N	RSW-ATL-E	ONLINE CA	0	251
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-19	102	35	I	TYS	DL	9E	5293	CR9	2019-12-0	21:09	2019-12-1	22:10	12345 7	76	N	RSW-ATL-T	ONLINE CA	0	191
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-19	123	35	I	GSO	DL	DL	2740	M88	2019-12-0	21:09	2019-12-1	22:24	12345 7	149	N	RSW-ATL-G	ONLINE CA	0	205
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-19	137	35	I	MGM	DL	OO	3747	CRJ	2019-12-0	21:09	2019-12-2	21:12	12345 7	50	N	RSW-ATL-M	ONLINE CA	0	193
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-19	102	35	I	DTW	DL	DL	1204	321	2019-12-0	19:22	2019-12-1	21:15	2 7	191	N	RSW-ATL-D	ONLINE CA	0	238
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-20	116	35	I	BOS	DL	DL	1800	321	2019-12-0	16:00	2019-12-0	18:30	23	191	N	RSW-ATL-B	ONLINE CA	0	273
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-20	116	35	I	BOS	DL	DL	2102	321	2019-12-0	09:54	2019-12-2	12:22	123456	191	N	RSW-ATL-B	ONLINE CA	0	272
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-20	120	35	I	GTR	DL	OO	3593	CRJ	2019-12-0	12:45	2019-12-1	12:55	12345	50	N	RSW-ATL-G	ONLINE CA	0	188
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-20	116	35	I	BDL	DL	DL	1383	M90	2019-12-0	16:00	2019-12-2	18:13	12345 7	158	N	RSW-ATL-B	ONLINE CA	0	256
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-20	116	35	I	BDL	DL	DL	1696	739	2019-12-0	09:54	2019-12-2	12:01	12345	180	N	RSW-ATL-B	ONLINE CA	0	251
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-20	101	35	I	MLI	DL	9E	4884	CR9	2019-12-0	16:00	2019-12-0	17:05	2 7	76	N	RSW-ATL-M	ONLINE CA	0	248
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-21	107	35	I	SJC	DL	DL	2059	739	2019-12-0	15:59	2019-12-0	18:23	2	180	N	RSW-ATL-S	ONLINE CA	0	446
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-21	116	35	I	ROA	DL	OO	3955	CRJ	2019-12-0	15:59	2019-12-0	17:28	2345	50	N	RSW-ATL-R	ONLINE CA	0	211
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-21	118	35	I	CHO	DL	DL	2158	717	2019-12-0	19:20	2019-12-1	20:45	12345 7	110	N	RSW-ATL-C	ONLINE CA	0	208
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-21	143	35	I	HOU	DL	DL	1808	717	2019-12-0	15:59	2019-12-2	17:15	12345 7	110	N	RSW-ATL-H	ONLINE CA	0	258
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-21	101	35	I	BNA	DL	DL	2604	321	2019-12-0	21:07	2019-12-0	21:13	23	191	N	RSW-ATL-B	ONLINE CA	0	194
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-21	124	35	I	RIC	DL	DL	658	M90	2019-12-0	15:59	2019-12-2	17:32	12345	158	N	RSW-ATL-R	ONLINE CA	0	215
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-22	131	35	I	ORF	DL	DL	2074	M88	2019-12-0	09:52	2019-12-2	11:25	12345 7	149	N	RSW-ATL-O	ONLINE CA	0	215
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-22	111	35	I	MEM	DL	DL	1771	M90	2019-12-0	09:52	2019-12-2	10:15	12345 7	158	N	RSW-ATL-M	ONLINE CA	0	205
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-22	107	35	I	SJC	DL	DL	825	757	2019-12-0	19:19	2019-12-2	21:37	12345 7	199	N	RSW-ATL-S	ONLINE CA	0	440
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-22	110	35	I	BUR	DL	DL	435	73W	2019-12-0	19:19	2019-12-2	21:05	12345 7	124	N	RSW-ATL-B	ONLINE CA	0	408
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-23	103	35	I	SEA	DL	DL	1178	757	2019-12-0	17:21	2019-12-2	20:00	2345	199	N	RSW-ATL-S	ONLINE CA	0	460
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-23	123	35	I	GSO	DL	DL	1558	M88	2019-12-0	19:18	2019-12-2	20:34	12345 7	149	N	RSW-ATL-G	ONLINE CA	0	197
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-23	105	35	I	MCI	DL	DL	2860	739	2019-12-0	19:18	2019-12-1	20:34	124 7	180	N	RSW-ATL-M	ONLINE CA	0	257
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-23	143	35	I	IAH	DL	DL	2851	M90	2019-12-0	09:51	2019-12-1	11:19	12345	158	N	RSW-ATL-IA	ONLINE CA	0	269
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-24	107	35	I	DEN	DL	DL	2813	739	2019-12-0	09:50	2019-12-2	11:22	12345 7	180	N	RSW-ATL-D	ONLINE CA	0	332
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-25	100	35	I	MSP	DL	DL	2282	321	2019-12-0	12:40	2019-12-1	14:19	1234567	191	N	RSW-ATL-M	ONLINE CA	0	272
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-25	108	35	I	SGF	DL	9E	5382	CR9	2019-12-0	09:49	2019-12-2	10:52	12345 7	76	N	RSW-ATL-S	ONLINE CA	0	242
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-26	109	35	I	LAS	DL	DL	1607	321	2019-12-0	15:54	2019-12-0	17:29	2	191	N	RSW-ATL-L	ONLINE CA	0	392
RSW	DL	DL	1068	757	2019-12-03	10:47	2019-12-03	12:30	2345	199	ATL	-26	116	35	I	BDL	DL	DL	2465	73W	2019-12-0	12:39	2019-12-0	14:51	2	124	N	RSW-ATL-B	ONLINE CA	0	244
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-27	102	35	I	TYS	DL	DL	2019	717	2019-12-0	15:53	2019-12-2	16:45	2345	110	N	RSW-ATL-T	ONLINE CA	0	168
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-27	116	35	I	LIT	DL	DL	1413	M88	2019-12-0	19:14	2019-12-1	19:54	124 7	149	N	RSW-ATL-L	ONLINE CA	0	217
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-27	143	35	I	HOU	DL	DL	890	717	2019-12-0	19:14	2019-12-1	20:30	12345 7	110	N	RSW-ATL-H	ONLINE CA	0	253
RSW	DL	DL	2651	757	2019-12-03	17:17	2019-12-03	19:06	2345	199	ATL	-28	135	35	I	JAN	DL	DL	760	717	2019-12-0	19:13	2019-12-1	19:35	12 7	110	N	RSW-ATL-J	ONLINE CA	0	198
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-28	118	35	I	BWI	DL	DL	1860	M90	2019-12-0	09:46	2019-12-2	11:33	12345	158	N	RSW-ATL-B	ONLINE CA	0	223
RSW	DL	DL	1067	757	2019-12-03	15:20	2019-12-03	17:09	2 4	199	ATL	-29	100	35	I	MDW	DL	DL	2168	73W	2019-12-0	17:15	2019-12-1	18:09	12345	124	N	RSW-ATL-M	ONLINE CA	0	229
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-29	128	35	I	PHF	DL	9E	5128	CR9	2019-12-0	20:59	2019-12-1	22:37	12345	76	N	RSW-ATL-P	ONLINE CA	0	218
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-29	117	35	I	HPN	DL	DL	1152	717	2019-12-0	09:45	2019-12-0	12:05	2	110	N	RSW-ATL-H	ONLINE CA	0	255
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-29	103	35	I	CMH	DL	DL	1256	739	2019-12-0	20:59	2019-12-1	22:34	12345 7	180	N	RSW-ATL-C	ONLINE CA	0	215
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-29	100	35	I	SDF	DL	DL	1090	M90	2019-12-0	20:59	2019-12-1	22:18	1234 7	158	N	RSW-ATL-S	ONLINE CA	0	199
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-29	100	35	I	RST	DL	9E	4945	CR9	2019-12-0	20:59	2019-12-2	22:33	12345 7	76	N	RSW-ATL-R	ONLINE CA	0	274
RSW	DL	DL	1732	757	2019-12-03	13:57	2019-12-03	15:45	12345 7	199	ATL	-30	130	35	I	RDU	DL	DL	1774	320	2019-12-0	15:50	2019-12-1	17:09	12345	157	N	RSW-ATL-R	ONLINE CA	0	192
RSW	DL	DL	2704	757	2019-12-03	18:59	2019-12-03	20:53	23	199	ATL	-30	107	35	I	DEN	DL	DL	2772	739	2019-12-0	20:58	2019-12-1	22:28	124 7	180	N	RSW-ATL-D	ONLINE CA	0	329
RSW	DL	DL	1753	757	2019-12-03	07:50	2019-12-03	09:39	12345 7	199	ATL	-30	102	35	I	STL	DL	DL	1570	M90	2019-12-0	09:44	2019-12-2	10:32	12345	158	N	RSW-ATL-S	ONLINE CA	0	222

USAGE: 135 RECORDS.

1. We extracted the "missed connections" from RSW for today via Atlanta to US Domestic Markets.
2. We applied a specific filter to Delta Air Lines
3. Added a maximum circuitry of 150%

Result:

135 missed connections in one day.

That's 135 missed opportunities to build traffic at RSW.

MISSING A CONNECTION DUE TO SCHEDULING

OAG

Today this is scheduled to happen:

DL1068 will depart RSW at 10:47 arriving at gate at ATL at 12:30

Delta Air Lines publish a 35 minute connection for domestic to domestic flights in Atlanta

DL 1355 will depart ATL for DEN at 12:59, which is only 29 minutes after the RSW service arrived….6 minutes INSIDE the MCT…thus not a valid scheduled connection.

93,515 passengers travel from RSW to DEN each year but they all miss this possible connection

Other connections exist but are they a missed opportunity? How many more are there in the room?

Org Leg1	Car Leg1	FltNo Leg1	DeptTime Leg1	ArrTime Leg1	Gateway	Missed Connection Time	Circuity	MCT Value	Des Leg2	Car Leg2	FltNo Leg2	DeptTime Leg2	ArrTime Leg2	O&D Market Size
RSW	DL	1068	10:47	12:30	ATL	-6	107	35	DEN	DL	1355	12:59	14:26	93,515

HOW SCHEDULES IS ESSENTIAL TO TRAFFIC DATA....AND VICE VERSA

It’s important to understand the traffic at your airport

But it’s more important to understand the traffic at your competitors!

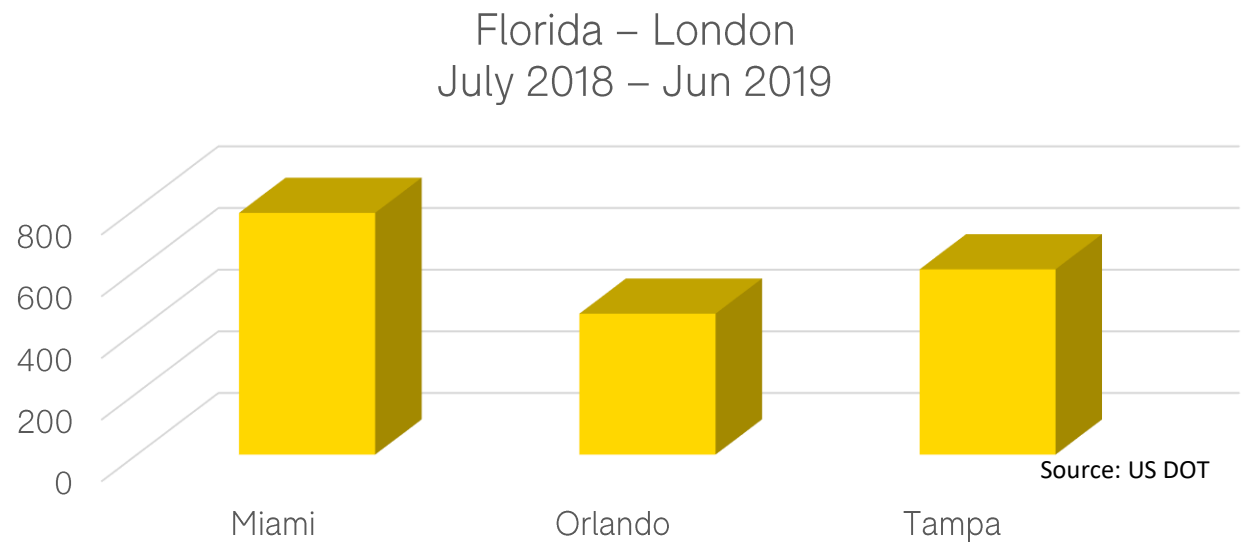
Traffic data, combined with Schedules data provides killer insights about your market.

The mix of traffic, seasonality, average yields, point of sale variances, direct and indirect volumes are all valuable insights.

You can’t build a successful business case without schedules, traffic, and connections data.

SO WHAT HAPPENED ON THOSE SCHEDULED FLIGHTS?

FLORIDA – LONDON YIELDS



Orlando has the volume
Orlando may have the volume but Miami has the yield advantage
While Tampa offers a US$100 premium over Orlando

Schedules, Connections, and Traffic data used effectively can create a case for each market!

WHERE ARE THE FUTURE SCHEDULES GOING TO BE?

UNSERVED & INDIRECT OPPORTUNITIES

Traffic data quickly identifies unserved and indirect flows...

This should be the list of new route targets, increased frequencies/capacity for any airport.

From: Washington IAD	
Destination city	Indirect Est. Pax
Saigon	29,466
Manila	26,232
Bangkok	24,104
Lagos	20,676
Mumbai	19,532
Chennai	16,462
Singapore	15,765
Kuwait	15,690
Taipei	15,450
Shanghai	14,824

From: Los Angeles LAX	
Destination city	Indirect Est. Pax
Saigon	123,464
Bangkok	122,182
Delhi	60,465
Yerevan	43,894
Mumbai	36,303
Tehran	36,125
Jakarta	35,005
Denpasar	34,774
Cairo	30,114
Phnom Penh	23,911

TO SUMMARIZE

- Every commercial airport should have access to data
- Without data its impossible to create effective business cases
- But most importantly grab the data and grab those routes
- It is my pleasure to introduce Mike Mooney from Volaire Consulting that will now show you how to apply this powerful data