CDM Automation Team

- Tasking #47: Delay Assignments

    Time Based Flow Metering (TBFM) Scheduled Departure Times

- Tasking #55: Data Quality Report Card/Surface Data Element Integration

Task #47 Recommendations to CSG

- AFP in DAS mode vs. UDP

- GDP algorithm change when GDPs are issued after an AFP or CTOP

- Use of arrival slots that are assigned to flights arriving earlier than GDP/AFP start time

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Flights Arriving Earlier Than GDP/AFP

- Non-Airborne flights with IGTA in program time frame but are arriving earlier than GDP/AFP start time are delayed into the program

- Occurs more often for operators that are not bound by schedule

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Use of Arrival Slots ECR Enhancements

- Capability to remove delay for flights arriving prior to GDP/AFP start time which will create "open" slot with options:
  - Leave available for pop-up
  - Compress to end of program
  - Assigned to specific flight
  - Deleted

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Use of Arrival Slots-ECR Enhancements

- Provide ATCSCC capability to manage "open" slots in UDP

  - Create, delete or compress "open" slots

  - Ability to assign an "open" slot to a specific flight

- Provide ATCSCC FSA flight history

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Recommendations to CSG cont.

- Computation of Estimated Time of Departure (ETD)
  - TBFM Scheduled Departure Times
  - P-Time vs. L-Time when L-Times are in the past

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Time Based Flow Metering

- Capability to display TBFM scheduled departure times in TFMS and FSM was deployed with Release 10 (Nov. 14)

- TBFM scheduled departure times are expected to populate TFSM/FSM Spring 2015

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Time Based Flow Metering cont.

- Once TBFM scheduled departure times being populating TFMS/FSM, they can be viewed in FSM/ESM version 11 by selecting field "TMA-RT" (TMA Release Time)

- Flights with TMA-RT should have ETD updated to the TMA-RT, the ETD will be prefixed with "M"

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TMA Release Time (TMA-RT) Field

TMA-RT added to flight list fields

TMA-RT Field cont.

Flight List: PHL 06/1547 LIVE

File   View   Flight List   Help

PHL   03/06/2015   15:47Z

Current Info

Data: Arrivals
Filter(s): Ground Stopped OR Dep (Past ETD) OR Dep (No CTD) OR Dep (CTD Issued) OR Dep (CTD Other Element) OR
06/1700 and 06/1759

	ACID	TYPE	ETD	ETA ▲	DCENTR	ORIG	AFIX	DFIX	DEST	TMA-RT
1	AWE775	B752	E06/1341	E06/1705	ZSU	TJSJ	JIIMS	–	PHL	–
2	RPA4637	E170	L06/1637	L06/1706	ZDC	BWI	DQO	SWANN	PHL	–
3	AAL1210	B738	A06/1458	E06/1707	ZMA	MIA	ESSSO	HEDLY	PHL	–
4	SWA1128	B737	A06/1547	E06/1709	ZTL	ATL	ESSSO	DAWGS	PHL	–
5	TCF5900	E145	L06/1623	E06/1713	ZDC	RDU	ESSSO	FAK	PHL	–
6	AWI9375	CRJ2	A06/1535	E06/1716	ZAU	GRR	BUNTS	–	PHL	–
7	PDT4874	DH8A	L06/1649	L06/1717	ZNY	EWR	PTW	WHITE	PHL	–
8	RPA4627	E170	L06/1628	L06/1718	ZOB	PIT	BUNTS	JST	PHL	–
9	DYN976	E145	P06/1610	E06/1721	ZID	DAY	BUNTS	–	PHL	–
10	AWE686	A321	A06/1427	E06/1723	ZDV	DEN	BUNTS	EXTAN	PHL	–
11	EJA565	C56X	A06/1504	E06/1724	ZMA	07FA	ESSSO	–	PHL	–
12	AWE1748	A321	A06/1507	E06/1728	ZFW	DFW	ESSSO	TRRCH	PHL	–
				L06/1730	ZDC	PHF	VCN	–	PHL	–
				L06/1734	ZTL	CLT	ESSSO	MERIL	PHL	–
				L06/1734	ZNY					
				L06/1735	ZID					
				L06/1736	ZAU					

ETD should update to TMA-RT time, pre-fixed with "M"

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TMA-RT field in flight list will contain the scheduled TBFM departure time.

50% Sub Error in AFP

- Error was occurring due to TFMS was not correctly recalculating ENTRY (estimated entry time) into an AFP for flights that had ABRG (adaptive bridge) control type when ABRG was due to a "drop-out"

- Error in TFMS was corrected on March 6

Tasking #55

- CAT is working with SCT on Tasking #55: Data Quality Report Card/Surface Data Element Integration

- Kick-Off meeting January 16

- Meeting in MCO during CDM Spring Session

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CAT Members

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Mike McAfee	FDX	
Jim McClay	NBAA	
Tim Matuszewski	UAL	
Mike Namendorf	JBU	
Brett Gilbertson	DAL	
RB Haggerty	A4A	
Scott Fritz	USA	
Lenard Carter	ATCSCC NTMS/NATCA	
Gino Siller	ATCSCC NTMS/NATCA	

EXTRA Slides
IGTA/IENTRY in GDP/AFP
vs. ETA/IENTRY Earlier than GDP/AFP

Initial Gate and Initial Entry

- For all flights, "Initial" times are created and then frozen in the data
  - Initial Gate Time of Departure (IGTD)
  - Initial Gate Time of Arrival (IGTA)
  - Initial Entry Time (IENTRY)
- Frozen IGTA and IENTRY times are key in the Ration-by-Schedule algorithms for GDP and AFP

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Flights With IGTA/IENTRY in GDP/AFP vs. ETA/ENTRY

- Non-airborne Flights with Initial Gate Time of Arrival (IGTA) within the GDP start/end times but have Estimated Time of Arrival (ETA) before GDP will be given an arrival slot in the GDP

- Behavior same for Non-airborne flights with Initial Entry Time (IENTRY) within AFP start/end times but have Estimated Entry Time (ENTRY) earlier than AFP
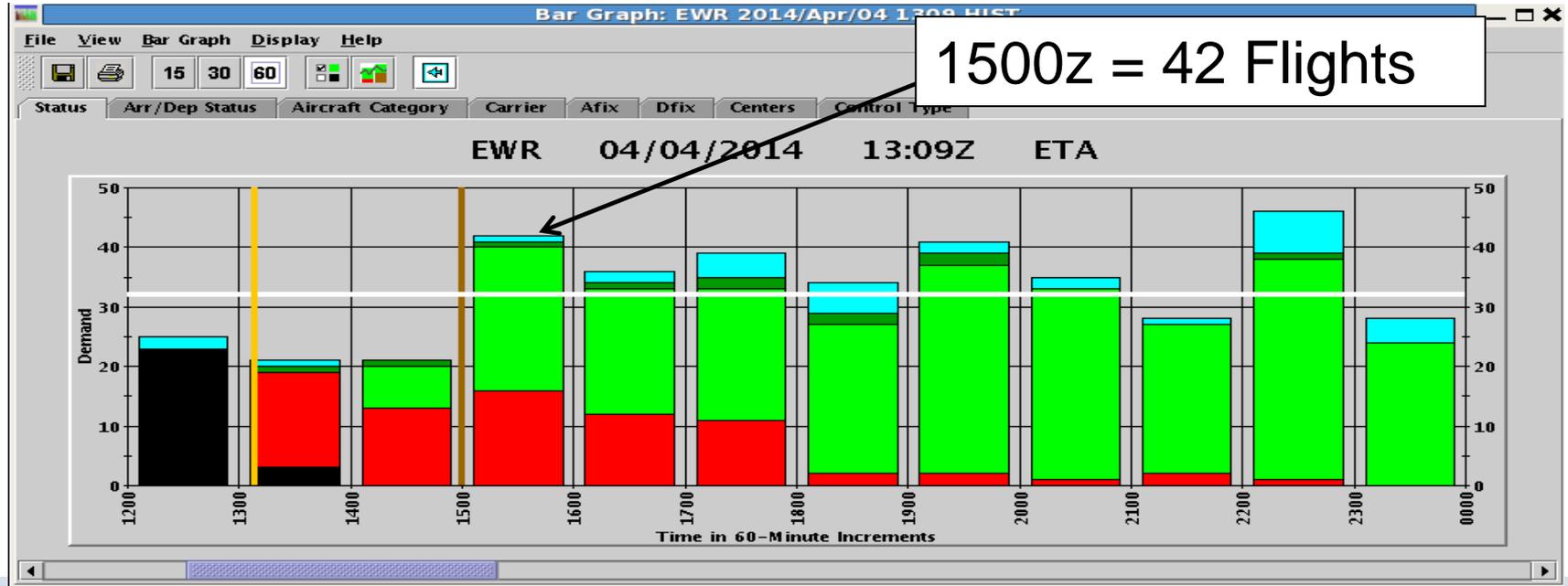
EWR 4/4/2014

1500z = 42 Flights

EWR 4/4/2014 cont.
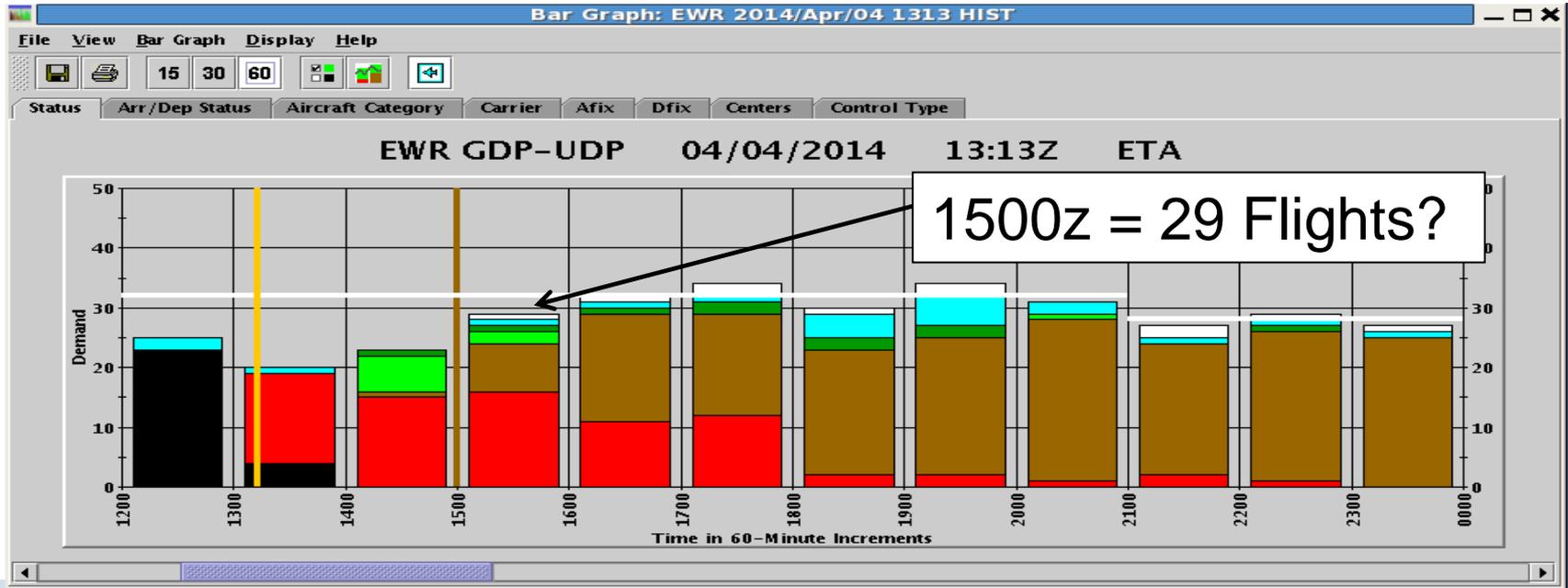
ETA Earlier Than GDP

Flight List: EWR 2014/Apr/04 1313 HIST

File   View   Flight List   Help

EWR GDP-UDP   04/04/2014   13:13Z

Current Info

Data: Arrivals
Filter(s): Ground Stopped OR Dep (Past ETD) OR Dep (No CTD) OR Dep (CTD Issued) OR Dep (CTD Other Element) OR Flight Active OR Arrived AND ETA between 04/1400 and 04/1459

	ACID	TYPE	ETD	ETA	ASLOT ▼	IGTA	CTL_EXEMPT	DCENTR	ORIG	AFIX	DFIX	DEST
1	RPA3874	DH8D	A04/1309	E04/1430	04/1539A	04/1227	Y	ZID	CMH	COATE	–	EWR
2	UAL24	B752	A04/0816	E04/1446	04/1507A	04/1525	Y	ZEU	EINN	SHAFF	–	EWR
3	TCF3584	E170	T04/1321	C04/1456	04/1500A	04/1513	Y	ZAU	ORD	PENNS	DUFEE	EWR
4	JBU644	A320	A04/1203	E04/1420	–	04/1447	–	ZMA	PBI	ARD	–	EWR
5	UAL162	B752	A04/0808	E04/1451	–	04/1535	–	ZEU	EGPF	SHAFF	–	EWR
6	UCA4826	DH8B	P04/1344	E04/1431	–	04/1451	–	ZNY	ITH	COATE	–	EWR
7	ASQ5800	E145	P04/1350	E04/1455	–	04/1507	–	CZY	CYYZ	SHAFF	BULGE	EWR
8	ASQ4121	E145	A04/1226	E04/1413	–	04/1344	–	ZME	BNA	PENNS	BWG	EWR
9	UAL1419	B738	A04/1245	E04/1454	–	04/1455	–	ZJX	MCO	ARD	DEARY	EWR
10	ASQ4416	E45X	A04/1143	E04/1419	–	04/1500	–	ZFW	OKC	PENNS	–	EWR
11	AAL1623	B738	A04/1135	E04/1403	–	04/1425	–	ZMA	MIA	ARD	VALLY	EWR
12	UAL1149	B738	A04/1158	E04/1418	–	04/1442	–	ZHU	MSY	ARD	SNAKI	EWR
13	POE125	DH8D	A04/1302	E04/1412	–	04/1425	–	CZY	CYTZ	COATE	–	EWR

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N723JA in AFPJX7 8/3/14

LGTD	LGTA	IGTD	IGTA	PGTD	PGTA	PETE	SGTD	SGTA	ADL_TIME	ARTD	ARTA	BETD	BETA	OETD	OETA	OCTD	OCTA
03/1500	03/1704	03/1500	03/1704						02/2002			03/1514	03/1719	03/1514	03/1719		
03/1300	03/1505	03/1500	03/1704						02/2202			03/1314	03/1519	03/1314	03/1519		
03/1300	03/1505	03/1500	03/1704						03/0002			03/1314	03/1519	03/1314	03/1519		
03/1300	03/1505	03/1500	03/1704						03/0802			03/1314	03/1519	03/1314	03/1519		
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514	124			03/1102			03/1312	03/1511	03/1312	03/1511		
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514	124			03/1202			03/1312	03/1511	03/1312	03/1511	03/1602	03/1730
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514	124			03/1232			03/1312	03/1511	03/1312	03/1511	03/1602	03/1730
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514	124			03/1437			03/1312	03/1511	03/1312	03/1511	03/1602	03/1730
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1527	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1532	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1537	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1602	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1607	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1627	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1647	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1652	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1657	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1707	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1712	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1722	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1727	03/1523		03/1312	03/1511	03/1312	03/1511	03/1530	03/1658
03/1300	03/1504	03/1500	03/1704	03/1300	03/1514				03/1732	03/1523	03/1730	03/1312	03/1511	03/1312	03/1511	03/1530	03/1658

N723JA ENTRY

Flight History:
FCAJX7

Data Anomalies Detected: None   Flight in Other Elements: Arr/Dep

Color Key: ▨ CTD/CTA changed due to an FSM Event, DAS Delay, or GAAP Delay ▨ Airline update to CTD/CTA

ETMS DataGate Flight History

ADL_TIME	ACID	ETD	ENTRY	EXIT	ETA	ETE	CTD	CTA	CTE	ASLOT	CTL_TYPE
03/1136	N723JA	L03/1312	03/1440	03/1440	E03/1511	119				-	
03/1201	N723JA	L03/1602	03/1730	03/1730	C03/1801	119	03/1602	03/1730	88	03/1730A	AFP
03/1233	N723JA	L03/1602	03/1730	03/1730	C03/1802	120	03/1602	03/1730	88	03/1730A	AFP
03/1438	N723JA	L03/1530	03/1658	03/1658	C03/1730	120	03/1530	03/1658	88	03/1658P	UPD
03/1523	N723JA	L03/1530	03/1658	03/1658	C03/1730	120	03/1530	03/1658	88	03/1709A	AFP
03/1528	N723JA	A03/1523	03/1652	03/1652	E03/1723	120	03/1530	03/1658	88	03/1709A	AFP
03/1533	N723JA	A03/1523	03/1654	03/1654	E03/1726	123	03/1530	03/1658	88	03/1709A	AFP
03/1538	N723JA	A03/1523	03/1653	03/1653	E03/1724	121	03/1530	03/1658	88	03/1709A	AFP

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N723JA IENTRY

LGTD	LGTA	IGTD	IENTRY	IGTA	PGTD	PGTA	PETE	SGTD	SGTA	ADL_TIME	ARTD	A
03/1300	03/1504	03/1500	03/1638	03/1704	03/1300	03/1514	124			03/1136		
03/1300	03/1504	03/1500	03/1638	03/1704	03/1300	03/1514	124			03/1201		
03/1300	03/1504	03/1500	03/1638	03/1704	03/1300	03/1514	124			03/1233		
03/1300	03/1504	03/1500	03/1638	03/1704	03/1300	03/1514	124			03/1438		
03/1300	03/1504	03/1500	03/1638	03/1704	03/1300	03/1514	124			03/1523		
03/1300	03/1504	03/1500	03/1638	03/1704	03/1300	03/1514				03/1528	03/1523	
03/1300	03/1504	03/1500	03/1638	03/1704	03/1300	03/1514				03/1533	03/1523	
03/1300	03/1504	03/1500	03/1638	03/1704	03/1300	03/1514				03/1538	03/1523	

N723JA Delay Assignment

Flight List: FCAJX7 2014/Aug/03 1243 HIST

File   View   Flight List   Help

FCAJX7 AFP–DAS   08/03/2014   12:43Z

Current Info

Data: Arrivals
Filter(s): Ground Stopped OR Dep (Past ETD) OR Dep (No CTD) OR Dep (CTD Issued) OR Dep (CTD Other Element) OR Flight A
            and 03/1759

	ACID ▲	TYPE	ORIG	DEST	ETD	ENTRY	CTL_PRG	CTL_TYPE	ProgramDelay
49	GJS6225	CRJ7	RDU	MCO	L03/1615	03/1705	FCAJX7	SUB	5
50	GTI8291	B744	ANC	MIA	A03/1057	03/1712	FCAJX7	AFP	49
51	HPJ65	LJ60	FRG	FXE	L03/1604	03/1737	FCAJX7	AFP	54
52	JBU1	A320	JFK	FLL	L03/1502	03/1707	FCAJX7	SUB	53
53	JBU29	E190	DCA	MYNN	S03/1551	03/1701	FCAJX7	SUB	37
54	JBU53	A320	JFK	PBI	R03/1540	03/1719	FCAJX7	AFP	43
55	JBU249	A320	DCA	TPA	L03/1603	03/1727	FCAJX7	SUB	29
56	JBU395	E190	HPN	MCO	L03/1610	03/1756	FCAJX7	AFP	46
57	JBU737	A320	BDL	MCO	L03/1526	03/1726	FCAJX7	AFP	47
58	JBU971	A320	LGA	FLL	L03/1541	03/1746	FCAJX7	SUB	60
59	JBU1125	E190	RDU	FLL	L03/1628	03/1711	FCAJX7	AFP	44
60	JIA4543	CRJ7	CLT	MYGF	L03/1649	03/1729	FCAJX7	AFP	38
61	JIA4737	CRJ2	CLT	MLB	L03/1635	03/1718	FCAJX7	AFP	40
62	N97CX	P46T	LZU	PMP	L03/1655	03/1754	FCAJX7	AFP	43
63	N445AK	ASTR	HAO	APF	L03/1602	03/1723	FCAJX7	AFP	53
64	N525NY	C25B	BUF	OCF	L03/1500	03/1716	FCAJX7	AFP	60
65	N613GA	BE20	AVL	TMB	L03/1559	03/1709	FCAJX7	AFP	39
66	N723JA	CL30	CAK	TPA	L03/1602	03/1730	FCAJX7	AFP	170
67	N800LJ	LJ55	TEB	MIA	L03/1529	03/1716	FCAJX7	AFP	47
68	N903MA	TBM7	EYE	SRQ	P03/1450	03/1701	FCAJX7	DAS	40
69	NKS197	A320	LGA	FLL	L03/1553	03/1756	FCAJX7	AFP	45
70	NKS341	A319	ACY	TPA	L03/1540	03/1717	FCAJX7	AFP	57
71	NKS727	A319	LBE	FLL	L03/1631	03/1757	FCAJX7	AFP	57
72	NKS943	A319	ACY	RSW	L03/1526	03/1705	FCAJX7	AFP	51
73	ROU1804	A319	CYYZ	MKJS	S03/1536	03/1725	FCAJX7	AFP	51
74	SKW5244	CRJ7	IAH	MIA	L03/1626	03/1743	FCAJX7	AFP	26
75	SSX923	A319	TTN	RSW	R03/1522	03/1724	FCAJX7	AFP	49
76	SWA206	B737	MKE	RSW	L03/1608	03/1759	FCAJX7	SUB	55
77	SWA246	B737	BWI	TPA	L03/1603	03/1737	FCAJX7	SUB	48
78	SWA3781	B738	ATL	TJSJ	S03/1717	03/1751	FCAJX7	SUB	52
79	SWA3880	B737	PHL	MCO	S03/1614	03/1749	FCAJX7	SUB	54
80	SWA4323	B737	MDW	FLL	L03/1556	03/1733	FCAJX7	SUB	73
81	SWA4414	B737	BWI	FLL	L03/1631	03/1740	FCAJX7	SUB	57
82	TRS87	B712	PIT	MCO	L03/1614	03/1739	FCAJX7	SUB	56
83	UAL206	A320	ORD	MCO	R03/1606	03/1750	FCAJX7	SUB	90

N198HB Delay Assignment AFPJX7

Flight List: FCAJX7 2014/Aug/03 1243 HIST

File   View   Flight List   Help

FCAJX7 AFP–DAS   08/03/2014   12:43Z

Current Info

Data: Arrivals
Filter(s): Ground Stopped OR Dep (Past ETD) OR Dep (No CTD) OR Dep (CTD Issued) OR Dep (CTD Other Element) OR Flight Activ
            between 03/1600 and 03/1659

	ACID ▲	TYPE	ORIG	DEST	ETD	ENTRY	CTL_PRGM	CTL_TYPE	ProgramDelay
48									
49	EJA801	C560	0A9	TMB	L03/1556	03/1645	FCAJX7	AFP	50
50	EJM96	LJ60	IND	APF	L03/1502	03/1625	FCAJX7	AFP	54
51	FIV622	C680	AVL	BCT	L03/1522	03/1607	FCAJX7	AFP	42
52	FWK945	CL30	PDK	TPA	L03/1540	03/1609	FCAJX7	AFP	54
53	JBU251	A320	BOS	MCO	L03/1353	03/1614	FCAJX7	SUB	22
54	JBU465	A320	BOS	RSW	L03/1334	03/1616	FCAJX7	SUB	41
55	JBU569	A320	BOS	FLL	L03/1324	03/1605	FCAJX7	SUB	39
56	JBU765	A320	JFK	MWCR	L03/1459	03/1631	FCAJX7	AFP	35
57	JBU925	A320	JFK	TPA	L03/1446	03/1651	FCAJX7	SUB	27
58	JBU1051	A320	JFK	MMUN	L03/1442	03/1637	FCAJX7	SUB	11
59	JBU1169	E190	RIC	MCO	L03/1451	03/1602	FCAJX7	SUB	41
60	JBU1223	A320	DCA	MCO	L03/1525	03/1648	FCAJX7	AFP	38
61	JBU1447	E190	HPN	TPA	L03/1344	03/1600	FCAJX7	SUB	53
62	JBU1567	E190	HPN	PBI	L03/1514	03/1656	FCAJX7	SUB	35
63	JBU1691	A320	JFK	MRLB	L03/1446	03/1616	FCAJX7	AFP	33
64	LXJ525	CL30	FOK	PBI	P03/1351	03/1611	FCAJX7	AFP	41
65	N198HB	LJ60	CAK	TPA	P03/1521	03/1651	FCAJX7	DAS	39
66	N303WS	CL30	FRG	PBI	L03/1525	03/1658	FCAJX7	AFP	45
67	N545CG	LJ45	ASG	MYNN	L03/1458	03/1624	FCAJX7	AFP	47
68	N560ML	C56X	ASW	MKY	P03/1519	03/1653	FCAJX7	DAS	39
69	N662BM	C510	ADS	FXE	P03/1453	03/1655	FCAJX7	DAS	40
70	N697FF	C56X	HRJ	MYAT	L03/1559	03/1640	FCAJX7	AFP	49
71	N771FF	AC90	LOM	APF	L03/1320	03/1605	FCAJX7	UPD	11
72	N804SH	PC12	MQS	PBI	P03/1353	03/1640	FCAJX7	DAS	43
73	NKS877	A319	ATL	FLL	L03/1611	03/1641	FCAJX7	AFP	43
74	OPT410	BE40	CLT	ORL	P03/1525	03/1609	FCAJX7	AFP	45
75	ROU1834	B763	CYUL	MTPP	P03/1414	03/1632	FCAJX7	AFP	50
76	RPA3234	E170	DCA	RSW	L03/1500	03/1638	FCAJX7	SUB	22
77	RPA3436	E170	DCA	FLL	L03/1515	03/1645	FCAJX7	AFP	40
78	SKW307V	CRJ7	ORD	MYNN	L03/1427	03/1612	FCAJX7	AFP	24
79	SKW5494	CRJ7	ORD	MYNN	S03/1442	03/1628	FCAJX7	SUB	47
80	SWA126	B737	BHM	MCO	L03/1614	03/1654	FCAJX7	SUB	47
81	SWA255	B737	ATL	MCO	L03/1626	03/1655	FCAJX7	SUB	47

Total flights: 100

EWR GDP Model 1/8/2015

GDP Start Time 1800Z
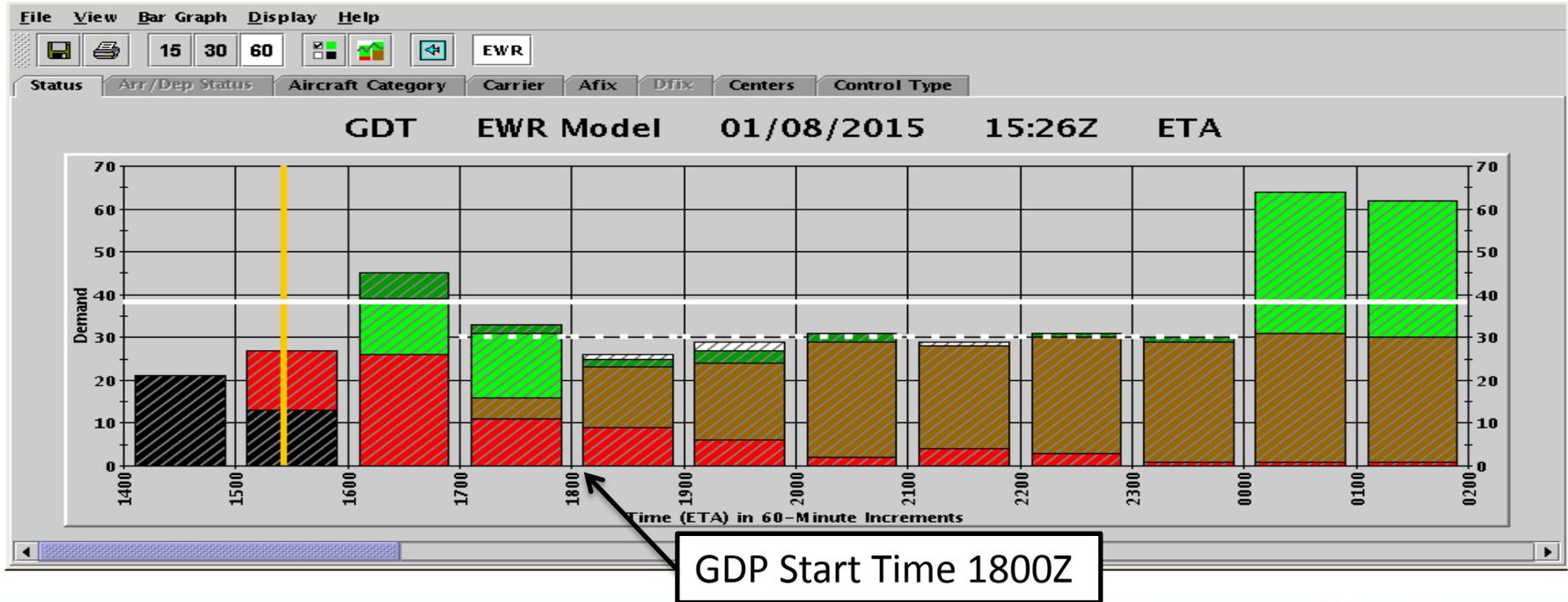
EWR Model 1/8/2015

Flight List: EWR 2015/Jan/08 1526 GDT HIST

File   View   Flight List   Help

EWR Model   01/08/2015   15:26Z

Current Info

Data: Arrivals
Filter(s): NOT(Arrived) AND NOT(Flight Active) AND NOT(Ground Stopped) AND NOT(Dep (Past ETD)) AND NOT(Dep (CTD Other Element
           AND ETA between 08/1700 and 08/1759

	ACID	TYPE	ETD	ETA ▲	DCENTR	ORIG	DEST	CTA	ASLOT	IGTA
1	UAL384	A320	P08/1537	E08/1738	ZJX	MCO	EWR	08/1738	08/1800A	08/1811
2	ASQ4440	E145	P08/1627	E08/1745	CZU	CYQB	EWR	08/1745	08/1801A	08/1811
3	RPA3858	DH8D	S08/1640	E08/1747	CZY	CYYZ	EWR	08/1747	08/1803A	08/1816
4	ASQ4341	E145	P08/1559	E08/1753	ZKC	STL	EWR	08/1753	08/1805A	08/1815
5	POE131	DH8D	L08/1645	L08/1759	CZY	CYTZ	EWR	08/1759	08/1807A	08/1815

Five flights with ETA earlier than GDP hold slots in GDP

CDM
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Extra Slides
P-Time in Future/L-time in Past

Example DAL1902 LGA-PBI

- DAL1902 LRTD = 1829z

- At 1844z, DAL1902 GS until 2005z

- GS purged at 2005z (GDP not issued)

- FAA updated P-time to 2030z, LRTD = 1829z

- TFMS uses L-time over P-time, DAL1902 with LRTD of 1829z Time Out canceled at 1959z

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Decision Making

Title

- Text