# Long Term Integration and Implementation of ATD-2 Phase 3 Capabilities

Topics - Overview

- Review of December FET/SCT meeting
- Support of alternative work flows
  - \* STORMY20 test
  - \* Operational system
- Software integration in operational systems
  - \* Users
    - Flight operator software support
    - Traffic manager software support



Recommendation 1: Use of Flight Operator (FO) estimates of airtime (long term implementation – not included in STORMY20)

- Goals
  - \* Accuracy
    - estimate if only aircraft in the sky vs. expected value (discuss use of historical performance data by flight planning systems)
  - \* Consistency of estimates used by ATD-2 algorithms with estimates used and displayed by dispatcher software

Recommendation: Use of Flight Operator (FO) estimates of airtime

Implications – Requirements for flight planning systems

\* Specify software architecture: Full integration of functionality within flight planning system vs. development of a FO Reroute Assessment "app" that communicates with flight planning system

Recommendation: Use of Flight Operator (FO) estimates of airtime (December meeting)

- Implications Requirements for flight planning systems
  - Assume STORMY20 architecture and work flow
    - Static TOSs pre-defined for each city pair using CDRs
    - Flight planning system and/or FO Reroute Assessment "app" would need to
      - Locally store and update static TOS in database for each city pair
      - Generate estimates of airtime for each route in the TOS for each flight (Discuss computation of airtime for "only aircraft in sky" vs. expected value)

- Send airtime estimates for each route to FAA software

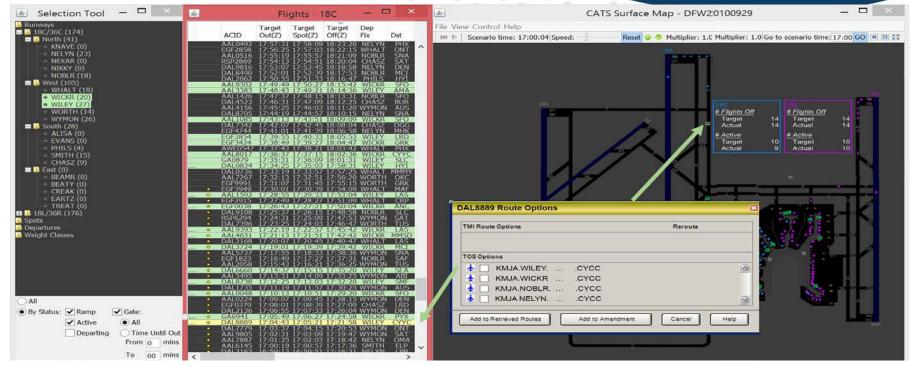
(not part of STORMY 2020 test but necessary for long term implementation of this architecture)

Recommendation 2: Incorporate estimates of aggregate benefit into FO decision making

- Note earlier presentation by Jeremy on aggregate benefits
- Assume STORMY20 architecture and work flow
  - \* Specification of richer objective function/decision process for FAA software to identify candidate routes
  - \* Specification of information display for FO (ATC coordinator/dispatcher) to evaluate candidate routes identified by FAA software (requirement for flight planning system or FO Reroute Assessment "app")
  - \* Specification of information display(s) for traffic manager and integration with tool(s) to select/create and submit route amendment

(IDRP; Departure Viewer; PDRR; TFDM?)

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Recommendation 3: Present specific recommendations/requirements to SCT/FET for feedback

- Examples discussed above
- Further examples for discussion later

Goals of discussion:

- Consider impacts on workload, communication load and cognitive complexity
  - \* ATC coordinator
  - \* Dispatcher
  - \* Traffic manager(s)
- Identify incorporation of ATD2 Phase 3 capabilities into alternative workflows
- Discuss implications for FO and FAA software requirements

Alternatives for discussion

- Example 1. Workflow for STORMY20 test
- Example 2. Workflow based on integration of ATD-2 Phase 3 capabilities within the FET's proposed extension of current operational workflow to support coordination of dispatcher and traffic manager using TOSs
- Other ideas?

Example 1. Workflow based on extension of STORMY20 test architecture

(assuming no surface CDM/TFDM functionality)

- Architecture and associated requirements
  - \* FAA software has locally stored set of static routes (CDRs) for inclusion in the TOS for each flight (that will need to be updated periodically)
  - \* FO software stores an identical set of static routes (CDRs) for inclusion in the TOS for each city pair (that will need to be updated periodically)
  - \* FO software estimates airtime for each flight/TOS route combination
  - \* FO software sends estimated airtimes for each flight/TOS route combination
    - How long before EOBT?

Example 1. Workflow based on extension of STORMY20 test architecture (assuming no surface CDM/TFDM functionality)

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  - \* 20-30 minutes before EOBT(?), FAA software uses ATD-2 software to filter out routes in the default TOS for a flight based on FAA advisories
  - \* FAA software uses ATD-2 functionality to predict departure delay (due to surface management constraints and MIT restrictions) for each remaining route in the TOS (considering EOBT, etc.)
  - \* FAA software computes aggregate delay impact associated with each route in the TOS

Example 1. Workflow based on extension of STORMY20 test architecture

(assuming no surface CDM/TFDM functionality)

- Architecture and associated requirements (continued)
  - \* FAA software uses ATD-2 capabilities to evaluate predicted delay reduction relative to estimated increase in airtime and identifies candidate reroute(s) for recommendation to FO
    - Refer to earlier discussion by Jeremy regarding incorporation of aggregate delay reductions into the process for generating candidate reroutes
    - Refer to earlier discussion about consideration of the uncertainty associated with estimates of delay reduction

\* FAA software sends candidate route(s) for a flight to ATC coordinator

- Information on routes that are not identified as candidates are sent to FO as well

Example 1. Workflow based on extension of STORMY20 test architecture (assuming no surface CDM/TFDM functionality)

- Architecture and associated requirements (continued)
  - \* ATC coordinator views display based on ATD-2 functionality (information requirements and interface design concepts)
  - \* If a reroute candidate looks desirable, ATC coordinator confers with dispatcher
  - \* Dispatcher reviews proposed reroute(s) using flight planning system
    - (and display based on ATD-2 functionality?)
  - \* Dispatcher indicates approval or disapproval of candidate reroute to ATC coordinator

Example 1. Workflow based on extension of STORMY20 test architecture

(assuming no surface CDM/TFDM functionality)

- Architecture and associated requirements (continued)
  - \* ATC coordinator submits recommendation for reroute to traffic manager
    - Note: In some facilities route amendments are made by the ATCT (DFW; CLT). In others they are made by the Center (ZNY; ZAU)
  - \* After pushback (or at some facilities slightly before), the traffic manager views displays based on ATD-2 functionality along with other information displays and makes a tactical decision regarding whether to make the proposed candidate route amendment or not
  - \* If an amendment is made, this is sent to the ATCT
  - \* ATCT offers amended route to pilots
  - \* Pilots accept route clearance (or not)

Example 2. Workflow based on integration of ATD-2 Phase 3 capabilities within the FET's proposed extension of the current operational workflow to support coordination of dispatcher, flight crew and traffic manager using TOSs (assuming no surface CDM/TFDM functionality)

- Architecture and associated requirements
  - \* This variation maintains a process that is already practiced by several major carriers to streamline coordination and communication between Dispatch and the flight crew
  - \* It extends this existing process to put the traffic manager in the loop regarding precoordination between dispatch and flight crew and reroute preferences of the FO (similar to the FET's proposed use of TOSs in PDRR)
  - \* This variation incorporates the capabilities demonstrated by ATD-2 Phase 3 to better support this coordination and decision process

Example 2. Workflow based on integration of ATD-3 Phase 3 capabilities within

the FET's proposed extension of current operational workflow to support coordination of dispatcher, flight crew and traffic manager using TOSs

#### • Architecture and associated requirements (continued)

\* Proposed variation of workflow for Example 2:

- When dispatcher is preparing the flight release 75-120 minutes before departure, he/she uses the flight planning system to identify the route to file
- The dispatcher also can request that the flight planning system produce a TOS
- Upon such a request from the dispatcher, the flight planning system produces a "superset" TOS that includes that includes routes for all of the "reasonable" alternative departure fixes for that city pair (where "reasonable" is defined by a canned list of generally feasible alternative departure fixes for that city pair). These alternative routes may or may not be CDRs depending on the policy of that FO and the relevant departure airport.

Example 2. Workflow based on integration of ATD-3 Phase 3 capabilities within the FET's proposed extension of current operational workflow to support coordination of dispatcher, flight crew and traffic manager using TOSs

- Architecture and associated requirements (continued)
  - \* Proposed variation of workflow for Example 2: The dispatcher evaluates the routes in the "superset" TOS with the benefits of ATD-2 information displays and can:
    - Leave all of the routes in the TOS or only those routes in the TOS that have been marked as tentatively desirable by the ATD-2 software
    - Manually add or delete routes in the TOS (using an interface that makes this easy)

Example 2. Workflow based on integration of ATD-3 Phase 3 capabilities within the FET's proposed extension of current operational workflow to support coordination of dispatcher and traffic manager using TOSs

- Architecture and associated requirements (continued)
  - \* Proposed variation of workflow for Example 2:
    - Along with the information on the route to be filed, the alternate routes in the TOS are included on the flight release for the pilots
    - With pilot concurrence, the flight plan is filed with the FAA, including the dispatcher approved version of the TOS and other associated information

Example 2. Workflow based on integration of ATD-3 Phase 3 capabilities within the FET's proposed extension of current operational workflow to support coordination of dispatcher and traffic manager using TOSs

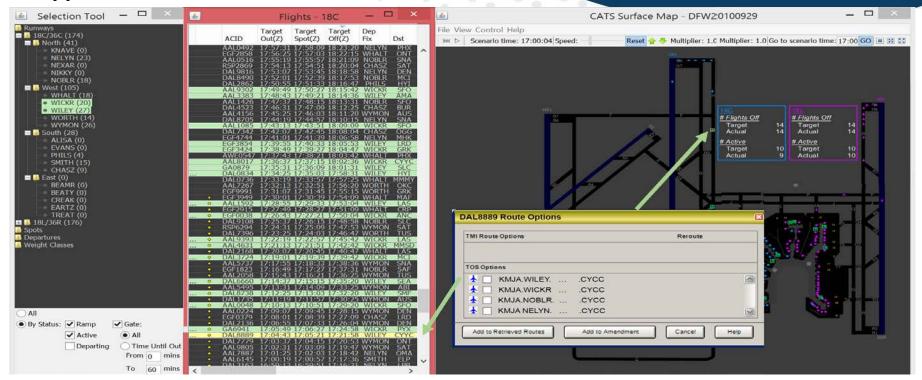
- Architecture and associated requirements (continued)
  - \* From this point in time until the traffic manager chooses to evaluate the flight for a reroute, by exception, the dispatcher or FO software can submit a revised TOS

if, by exception, the dispatcher does look at a flight again to consider changing its TOS, he/she can look at the up-to-date ATD-2 displays to see the benefits associated with alternative routes and can consider other factors like crew time, international connections, etc.

\* At any time before the traffic manager chooses to evaluate the flight for a reroute, the dispatcher also has the ability to mark a flight as "important"

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Example 2. Workflow based on integration of ATD-3 Phase 3 capabilities within

the FET's proposed extension of current operational workflow to support coordination of dispatcher and traffic manager using TOSs

#### • Architecture and associated requirements (continued)

- \* Proposed variation of workflow for Example 2:
  - Center/TRACON traffic managers are monitoring conditions and establishing MIT restrictions as needed. They enter a restriction in NTML for a 2 hour period (or for one hour with a predicted rate for the second hour), updating them every hour
- \* The traffic manager responsible for reroutes (ATCT or Center?) is evaluating conditions to determine whether there is a need to consider rerouting some flights to expedite departures
  - As one input: 45-60 minutes before the planned departure time for a flight, the FAA software requests estimated airtimes for routes in its TOS, runs the ADT-2 evaluation and marks flights in the Departure Viewer to indicate which if any have desirable "candidates" for a reroute

Example 2. Workflow based on integration of ATD-3 Phase 3 capabilities within

the FET's proposed extension of current operational workflow to support coordination of dispatcher and traffic manager using TOSs

#### • Architecture and associated requirements (continued)

\* Proposed variation of workflow for Example 2:

 - 20-30 mins. before EOBT: Taking into consideration the flights in the Departure Viewer (organized by departure fix) that have been marked as having candidate reroutes, and taking into consideration any flights that have been marked by the dispatcher as particularly important for expediting departure, while looking at ATD-2 information displays the traffic manager decides whether to amend a flight to its candidate reroute (or some other reroute)

The traffic manager can choose to look at the "superset" TOS for that flight or its TOS filtered to display only those reroutes that have been identified as candidates by the ATD-2 software

Example 2. Workflow based on integration of ATD-3 Phase 3 capabilities within the FET's proposed extension of current operational workflow to support coordination of dispatcher and traffic manager using TOSs

- Architecture and associated requirements (continued)
  - \* Proposed variation of workflow for Example 2:
    - The traffic manager makes the route amendment
    - The reroute is automatically sent to ATCT and as an alert to the dispatcher
    - The dispatcher evaluates the reroute and determines that it is acceptable, looking at ATD-2 displays to help with this assessment
    - The dispatcher concludes that the reroute is ok and informs the flight crew to expect this reroute
    - ATCT clears the flight to depart on the reroute and the flight crew accepts the clearance

Examples 1 and 2. Impacts on workload, communication load and cognitive complexity

- Users
- \* ATC coordinator
- \* Dispatcher
- \* Traffic manager
- ATD-2 Phase 3 capabilities
  - \* Supporting algorithms (also FO vs. FAA software)
  - \* Information requirements
  - \* Interface design concepts

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SH5738	E36R	OKC	KDFW.NELYN6.ACTACT240032AGJ	SOUTH	10/22:35	10/23:57	22:50	-68	Pushback	20M	Not Submitted	DFWOKC1E	EAST	Candidate		
AL1904	E36R	SAN	KDFW.KATZZ2.BRHMA.RECKN.ABQ.Z	SOUTH	10/22:51	11/00:39	23:42	-57	Scheduled_Out	20M FixClsd	Not Submitted	DFWSAN1N	NORTH	Candidate		
AL779	E35L	DTW	KDFW.AKUNA7.MLCRZCFAMVHP	NORTH	10/22:56	10/23:35	23:22	-13	Scheduled_Out	15M FixClsd	Not Submitted	DFWDTWOP	EAST	Candidate		
AL2779	E36R	SNA	KDFW.KATZZ2.BRHMA.RECKN.ABQ.J6	SOUTH	10/23:12	11/00:48	23:42	-66	Scheduled_Out	20M FixClsd	Not Submitted	DFWSNA1N	NORTH	Candidate		
AL2471	E36R	ONT	KDFW.KATZZ2.BRHMA.CNXDRYHT	SOUTH	10/23:20	11/00:51	23:42	-69	Scheduled_Out	20M FixClsd	Not Submitted	DFWONT1N	NORTH	Candidate		
SH5795	E36R	PHX	KDFW.WSTEK2.CIKAN.EWM.DRRVR.PI	SOUTH	10/23:25	11/00:54	00:09	-46	Scheduled Out	20M FixClsd	Not Submitted	DFWPHX1N	NORTH	Candidate		

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Dest	TOS Departure - Eligibility State - Ca Route of Flight	ndidate Dep Gate	EOBT 🔺	1	- Terrer							×				
ABI		Dep	FORT A	1	1 mars											
		100000	EOBT -	ETOT	Top ETOT	Top Total Delay Savings OF	Flight Status	TMI Info	Coord State	Top CDR	Top Dep Gate	Eligibility State				
1.1.1.1	KDFW.NELYN6.SAT.,KABI/0040	SOUTH	10/21:17	10/23:30	22:58		Taxiing_AMA	20M	Not Submitted	DFWABI1N	NORTH	Candidate				
LAX	KDFW NELYNG HOARY JCT J86 ELP J5	SOUTH	10/21/27	10/22:53	22:42		In_Queue	20M	FO Submitted	DFWLAX1N	NORTH	Candidate				
PHX	KDFW.NELYN6.HOARYJCT.J86.ELPD.		10/22:22	10/23:11	22:58		In_Queue	20M	Not Submitted		NORTH					
OKC			10/22:35	10/23:57			Pushback	20M				Candidate				
SAN				11/00:39			and the state of the second									
TPA	KDFW.DART28.BILEE.J87.IAH.J86.LEV	SOUTH	10/23:47	11/00:05	00:00	-4	Scheduled_Out	10M FixClsd	Not Submitted	DFWTPAOP	EAST	Candidate				
) B= 1	FOS Departure - Coord State = FO Su	omitted														×
Dest	Route of Flight	Dep Gate	EOBT	ETOT 🕶	Flight	t Status	TMI Info	icratch Pad	Eligibility State	Coord State	TOS	TOS Top CDI	C Top Dep Gate	Top RTC	Top Total Delay Savings OFF	Top Rwy
LAX	KDFW NELYNG HOARY JCT J86 ELP J5	SOUTH	10/21:27	10/22:53	In_Quer	ue 20	M		Candidate F	O Submitted	1	1 DFWLAX1N	NORTH	+5	-11	36R
	SAN DTW SNA ONT PHX TPA	SAN KDFW.KAT222.BRHMA.RECKN.ABQ. Z. DTW KDFW.KAT222.BRHMA.RECKN.ABQ. Z. DTW KDFW.KAT222.BRHMA.RCKN.ABQ.G. ONT KDFW.KAT222.BRHMA.RCKN.ABQ.G. ONT KDFW.KAT222.BRHMA.CNX.DRYHT PHX KDFW.WSTEX2.CIKAN.EWM.DRRVR.PI. TPA KDFW.DART28.BILEE J87.IAH.J86.LEV. B: TOS Departure - Coord State = FO Sul Dest Route of Flight LAX KDFW.NELYN6 HOARY_JCT_J86 ELP_J5.	SAN     KDFW, KATZZ2, BRHMA, RECKN, ABQ, Z., SOUTH       DTW     KDFW, KATZZ2, BRHMA, RECKN, ABQ, J., SOUTH       DTW     KDFW, KATZZ2, BRHMA, CRX, FAM, VHP, NORTH       SNA     KDFW, KATZZ2, BRHMA, CRX, DRYHT, SOUTH       ONT     KDFW, KATZ22, BRHMA, CNX, DRYHT, SOUTH       PHX     KDFW, KATZ22, BRHMA, CNX, DRYHT, SOUTH       PHX     KDFW, KATZ22, BRHMA, CNX, DRYHT, SOUTH       TOS     SOUTH       TOS     Departure - Coord State = FO Submitted       Dest     Route of Flight     Dep Gate       LAX     KDFW NELYNG HOARY, JCT J86 ELP JS., SOUTH	SAN         KDFW.KATZZ2.BRIMA.RECKNABQ.Z         SOUTH         10/22:51           DTW         KDFW.KATZZ2.BRIMA.RECKNABQ.Z         SOUTH         10/22:51           DTW         KDFW.KATZZ2.BRIMA.RECKNABQ.Z         NORTH         10/22:56           SNA         KOFW.KATZ22.BRIMA.RECKNABQ.MORTH         10/22:11           ONT         KDFW.KATZ22.BRIMA.RECKNABQ.MORTH         10/23:12           PHX         KDFW.KATZ22.BRIMA.CNX.DRYHT         SOUTH         10/23:20           PHX         KDFW.KATZ22.BRIMA.REWM.DRKYR.PI         SOUTH         10/23:21           TPA         KDFW.DARTZ8.BILEE J87.IAH.J86.LEV         SOUTH         10/23:47           I         II         TOS Departure - Coord State = FO Submitted         E08T           Dest         Route of Flight         Dep Gate         E08T           LAX         KDFW NELYN6 HOARY_JCT_J86 ELP J5         SOUTH         10/21:27	SAN         KDFW.KATZZ2. BRHMA. RECKN. ABQ. Z         SOUTH         10/22:51         11/00:39           DTW         KDFW.KATZZ2. BRHMA. RECKN. ABQ. Z         NORTH         10/22:51         10/23:38           SMA         KDFW.KATZZ2. BRHMA. RECKN. ABQ. G.         NORTH         10/23:10         10/23:38           SMA         KDFW.KATZZ2. BRHMA. RECKN. ABQ. G.         SOUTH         10/23:11         11/00:49           ONT         KDFW.KATZ22. BRHMA. CNX. DRYHT         SOUTH         10/23:20         11/00:51           PHX         KDFW.KATZ22. BRHMA. CNX. DRYHT         SOUTH         10/23:21         11/00:51           PHX         KDFW.KATZ22. BRHMA. CNX. DRYHT         SOUTH         10/23:22         11/00:51           PHX         KDFW.KATZ22. BRHMA. CNX. DRYKR.PL.         SOUTH         10/23:27         11/00:54           TPA         KDFW.DARTZ8. BILEE J87.IAH. J86. LEV         SOUTH         10/23:47         11/00:05           III         TOS Departure - Coord State = FO Submitted         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	SAN         KDFW.KAT222.BRHMA.RECKN.ABQ.Z         SOUTH         10/22:51         11/00:39         23:38           DTW         KDFW.KAT222.BRHMA.RECKN.ABQ.Z         NORTH         10/22:51         11/00:39         23:38           DTW         KDFW.KAT222.BRHMA.RECKN.ABQ.F         NORTH         10/22:56         10/23:38         23:42           ONT         KDFW.KAT222.BRHMA.RECKN.ABQ.F         SOUTH         10/23:12         11/00:48         23:42           ONT         KDFW.KAT222.BRHMA.RCNX.DRYHT         SOUTH         10/23:20         11/00:51         23:42           PHX         KDFW.KAT222.BRHMA.CNX.DRYHT         SOUTH         10/23:25         11/00:51         23:42           PHX         KDFW.WAT222.BRHMA.CNX.DRYHT         SOUTH         10/23:25         11/00:51         23:42           PHX         KDFW.DART28.BILEE J87.14H.J86.LEV         SOUTH         10/23:27         11/00:05         00:00           Dest         Route of Flight         Dep Gate         E0BT         ETOT ▼         Fligh           LAX         KDFW NELYNG HOARY JCT J86 ELP J5.         SOUTH         10/21:27         10/22:53         In_Que	SAN         KDFW.KATZZ2. BRHMA. RECKN. ABQ. Z         SOUTH         10/22:51         11/00:39         23:38         -60           DTW         KDFW.KATZZ2. BRHMA. RECKN. ABQ. Z         NORTH         10/22:51         11/00:39         23:38         -60           DTW         KDFW.KATZZ2. BRHMA. RECKN. ABQ. G.         NORTH         10/22:51         10/23:38         23:20         -18           SNA         KDFW.KATZ22. BRHMA. RECKN. ABQ. G.         SOUTH         10/23:11         11/00:48         23:42         -66           ONT         KDFW.KATZ22. BRHMA. CNX. DRYHT         SOUTH         10/23:20         11/00:51         23:42         -69           PHX         KDFW.WATZ22. BRHMA. CNX. DRYHT	SAN         KDFW.KAT222.BRHM.A.RECKNABQ.Z         SOUTH         10/22:\$1         11/00:39         23:38         -60         Scheduled_Out           DTW         KDFW.KAT222.BRHM.A.RECKNABQ.Z         NORTH         10/22:\$1         11/00:39         23:38         -60         Scheduled_Out           DTW         KDFW.KAT222.BRHMA.RECKNABQ.G.         NORTH         10/22:\$1         10/23:38         23:20         -18         Scheduled_Out           ONT         KDFW.KAT222.BRHMA.RECKNABQ.G.         SOUTH         10/23:12         11/00:48         23:42         -66         Scheduled_Out           ONT         KDFW.KAT222.BRHMA.CNXDRYHT	SAN         KDFW.KAT222.8RHMA.RECKN.ABQ.Z         SOUTH         10/22:51         11/00:39         23:38         60         Scheduled_out         20 FixClsd           DTW         KDFW.AKUNA7.MLC.R2C.FAMHP         NORTH         10/22:51         11/00:39         23:38         60         Scheduled_out         20M FixClsd           DTW         KDFW.KAT222.BRHMA.RECKN.ABQ.G.S.OUTH         10/22:51         11/00:48         23:24         -66         Scheduled_out         20M FixClsd           ONT         KDFW.KAT222.BRHMA.CNX.DRYHT         SOUTH         10/23:20         11/00:51         23:42         -66         Scheduled_Out         20M FixClsd           ONT         KDFW.KAT222.BRHMA.CNX.DRYHT         SOUTH         10/23:20         11/00:51         23:42         -69         Scheduled_Out         20M FixClsd           PHX         KDFW.KAT222.BRHMA.CNX.DRYHT         SOUTH         10/23:25         11/00:51         23:42         -69         Scheduled_Out         20M FixClsd           PHX         KDFW.KAT228.BILEE JB7.IAH J86 LEV         SOUTH         10/23:47         11/00:05         00:00         -4         Scheduled_Out         20M FixClsd           IB:         TOS Departure - Coord State = FO Submitted         IDM         Dep         Gate         EOBT <td< td=""><td>SAN     KDFW.KAT222.BRHMA.RECKN.ABQ.ZSOUTH     10/22:S1     11/00:39     23:38     6-0     Scheduled_Out     20M FixClsd     Not Submitted       DTW     KDFW.KAT222.BRHMA.RECKN.ABQ.ZSOUTH     10/22:S1     11/00:39     23:38     6-0     Scheduled_Out     20M FixClsd     Not Submitted       DTW     KDFW.KAT222.BRHMA.RECKN.ABQ.ESOUTH     10/22:S1     11/00:48     23:42     -65     Scheduled_Out     20M FixClsd     Not Submitted       ONT     KDFW.KAT222.BRHMA.RECKN.ABQ.ESOUTH     10/23:12     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted       ONT     KDFW.KAT222.BRHMA.CNX.DRYHTSOUTH     10/23:20     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted       PHX     KDFW.KAT222.BRHMA.CNX.DRYHTSOUTH     10/23:25     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted       PHX     KDFW.KAT28.BILEE JB7.IAH.JB6.LEV     SOUTH     10/23:27     11/00:05     00:00     -4     Scheduled_Out     20M FixClsd     Not Submitted       IB::     TOS Departure - Coord State = FO Submitted     Image: Scheduled_State     Image: Scheduled_State     Image: Scheduled_State     Image: Scheduled_State     Image: Scheduled_State     Scheduled_State     Scheduled_State     Scheduled_Sta</td><td>SAN     KDFW.KATZZ2.8RHMA.RECKN.ABQ.Z.     SOUTH     10/22:51     11/00:39     23:38     -60     Scheduled_Out     20M FixClsd     Not Submitted     DFWSANIN       DTW     KDFW.KATZZ2.8RHMA.RECKN.ABQ.Z.     NORTH     10/22:51     10/23:38     23:20     -18     Scheduled_Out     10M FixClsd     Not Submitted     DFWDTWOP       DTW     KDFW.KATZZ2.8RHMA.RECKN.ABQ.Z.     SOUTH     10/23:56     10/23:38     23:20     -18     Scheduled_Out     10M FixClsd     Not Submitted     DFWDTWOP       ONT     KDFW.KATZZ2.BRHMA.RECKN.ABQ.E.     SOUTH     10/23:12     -69     Scheduled_Out     20M FixClsd     Not Submitted     DFWONTIN       ONT     KDFW.KATZZ2.BRHMA.CNX.DRYHT     SOUTH     10/23:20     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted     DFWONTIN       PHX     KDFW.KATZZ2.BRHMA.RECKN.ABQ.E.     SOUTH     10/23:25     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted     DFWFNXTN       PHX     KDFW.KATZZ8.BILEE J87.IAH.J86.LEV     SOUTH     10/23:47     11/00:55     00:05     -49     Scheduled_Out     20M FixClsd     Not Submitted     DFWFNXTN       TPA     KDFW.DARTZ8.BILEE J87.IAH.J86.LEV     SOUTH     10/23:47     11/00:05     00:05</td><td>SAN       KDFW.KATZZ2.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH         DTW       KDFW.KATZZ2.BRHMA.RECKN.ABQ.Z.       NORTH       10/22:51       10/23:38       23:20       -18       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH         DTW       KDFW.KATZ22.BRHMA.RECKN.ABQ.G.       South       10/23:21       11/00:48       23:42       -65       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH         ONT       KDFW.KATZ22.BRHMA.RECKN.ABQ.G.       South       10/23:21       11/00:48       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH         ONT       KDFW.KATZ22.BRHMA.RECKN.ABQ.G.       SOUTH       10/23:20       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWONT N       NORTH         PHX       KDFW.KATZ22.BRHMA.RECKN.ABQ.E.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWONT N       NORTH         PHX       KDFW.DATZ28.BILEE J87 IAH J86 LEV       SOUTH</td><td>SAN       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       NORTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not Submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.G.       NORTH       10/23:12       11/00:48       23:42       -66       Scheduled_Out       20M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:12       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:25       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         PHX       KDFW.KAT222.BRHMA.EXTW.DRRVR.PL       SOUTH       10/23:27       11/00:05       00:00       -4       Scheduled_Out       20M FixClsd       Not Submitted       DFWTAUN       <td< td=""><td>SAN       KDFW.KATZZ2. BRIMA.RECKN. ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KATZZ2. BRHMA.RECKN. ABQ.Z.       SOUTH       10/22:51       10/23:38       23:20       -18       Scheduled_out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         DTW       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SoUTH       10/23:12       -66       Scheduled_out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:20       11/00:18       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWDNTIN       NORTH       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:20       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWDNTIN       NORTH       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWPX1N       NORTH       Candidate&lt;</td><td>SAN       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not Submitted       DFWSAN1N       NORTH       Candidate         DTW       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       10/23:82       23:20       -18       Scheduled_Out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         DAM       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:38       23:20       -18       Scheduled_Out       20M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KAT222 BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         ONT       KDFW.KAT222 BRHMA.RECKN.ABQ.E.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         PHX       KDFW.KAT222 BRHMA.RECKN.ABQ.E.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWTX1N</td><td>SAN       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:38       23:38       -60       Scheduled_Out       20M FixClsd       Not Submitted       DFWOTWOP       EAST       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:38       23:42       -66       Scheduled_Out       20M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:12       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:25       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         PHX       KDFW.KAT222.BRHMA.RECKN.ABQ.F       SOUTH       10/23:27       11/00:05       00:00       -4       Scheduled_Out       20M FixClsd       Not Submitted       DFWTAUN</td></td<></td></td<>	SAN     KDFW.KAT222.BRHMA.RECKN.ABQ.ZSOUTH     10/22:S1     11/00:39     23:38     6-0     Scheduled_Out     20M FixClsd     Not Submitted       DTW     KDFW.KAT222.BRHMA.RECKN.ABQ.ZSOUTH     10/22:S1     11/00:39     23:38     6-0     Scheduled_Out     20M FixClsd     Not Submitted       DTW     KDFW.KAT222.BRHMA.RECKN.ABQ.ESOUTH     10/22:S1     11/00:48     23:42     -65     Scheduled_Out     20M FixClsd     Not Submitted       ONT     KDFW.KAT222.BRHMA.RECKN.ABQ.ESOUTH     10/23:12     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted       ONT     KDFW.KAT222.BRHMA.CNX.DRYHTSOUTH     10/23:20     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted       PHX     KDFW.KAT222.BRHMA.CNX.DRYHTSOUTH     10/23:25     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted       PHX     KDFW.KAT28.BILEE JB7.IAH.JB6.LEV     SOUTH     10/23:27     11/00:05     00:00     -4     Scheduled_Out     20M FixClsd     Not Submitted       IB::     TOS Departure - Coord State = FO Submitted     Image: Scheduled_State     Image: Scheduled_State     Image: Scheduled_State     Image: Scheduled_State     Image: Scheduled_State     Scheduled_State     Scheduled_State     Scheduled_Sta	SAN     KDFW.KATZZ2.8RHMA.RECKN.ABQ.Z.     SOUTH     10/22:51     11/00:39     23:38     -60     Scheduled_Out     20M FixClsd     Not Submitted     DFWSANIN       DTW     KDFW.KATZZ2.8RHMA.RECKN.ABQ.Z.     NORTH     10/22:51     10/23:38     23:20     -18     Scheduled_Out     10M FixClsd     Not Submitted     DFWDTWOP       DTW     KDFW.KATZZ2.8RHMA.RECKN.ABQ.Z.     SOUTH     10/23:56     10/23:38     23:20     -18     Scheduled_Out     10M FixClsd     Not Submitted     DFWDTWOP       ONT     KDFW.KATZZ2.BRHMA.RECKN.ABQ.E.     SOUTH     10/23:12     -69     Scheduled_Out     20M FixClsd     Not Submitted     DFWONTIN       ONT     KDFW.KATZZ2.BRHMA.CNX.DRYHT     SOUTH     10/23:20     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted     DFWONTIN       PHX     KDFW.KATZZ2.BRHMA.RECKN.ABQ.E.     SOUTH     10/23:25     11/00:51     23:42     -69     Scheduled_Out     20M FixClsd     Not Submitted     DFWFNXTN       PHX     KDFW.KATZZ8.BILEE J87.IAH.J86.LEV     SOUTH     10/23:47     11/00:55     00:05     -49     Scheduled_Out     20M FixClsd     Not Submitted     DFWFNXTN       TPA     KDFW.DARTZ8.BILEE J87.IAH.J86.LEV     SOUTH     10/23:47     11/00:05     00:05	SAN       KDFW.KATZZ2.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH         DTW       KDFW.KATZZ2.BRHMA.RECKN.ABQ.Z.       NORTH       10/22:51       10/23:38       23:20       -18       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH         DTW       KDFW.KATZ22.BRHMA.RECKN.ABQ.G.       South       10/23:21       11/00:48       23:42       -65       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH         ONT       KDFW.KATZ22.BRHMA.RECKN.ABQ.G.       South       10/23:21       11/00:48       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH         ONT       KDFW.KATZ22.BRHMA.RECKN.ABQ.G.       SOUTH       10/23:20       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWONT N       NORTH         PHX       KDFW.KATZ22.BRHMA.RECKN.ABQ.E.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWONT N       NORTH         PHX       KDFW.DATZ28.BILEE J87 IAH J86 LEV       SOUTH	SAN       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       NORTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not Submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.G.       NORTH       10/23:12       11/00:48       23:42       -66       Scheduled_Out       20M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:12       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:25       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         PHX       KDFW.KAT222.BRHMA.EXTW.DRRVR.PL       SOUTH       10/23:27       11/00:05       00:00       -4       Scheduled_Out       20M FixClsd       Not Submitted       DFWTAUN <td< td=""><td>SAN       KDFW.KATZZ2. BRIMA.RECKN. ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KATZZ2. BRHMA.RECKN. ABQ.Z.       SOUTH       10/22:51       10/23:38       23:20       -18       Scheduled_out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         DTW       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SoUTH       10/23:12       -66       Scheduled_out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:20       11/00:18       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWDNTIN       NORTH       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:20       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWDNTIN       NORTH       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWPX1N       NORTH       Candidate&lt;</td><td>SAN       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not Submitted       DFWSAN1N       NORTH       Candidate         DTW       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       10/23:82       23:20       -18       Scheduled_Out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         DAM       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:38       23:20       -18       Scheduled_Out       20M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KAT222 BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         ONT       KDFW.KAT222 BRHMA.RECKN.ABQ.E.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         PHX       KDFW.KAT222 BRHMA.RECKN.ABQ.E.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWTX1N</td><td>SAN       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:38       23:38       -60       Scheduled_Out       20M FixClsd       Not Submitted       DFWOTWOP       EAST       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:38       23:42       -66       Scheduled_Out       20M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:12       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:25       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         PHX       KDFW.KAT222.BRHMA.RECKN.ABQ.F       SOUTH       10/23:27       11/00:05       00:00       -4       Scheduled_Out       20M FixClsd       Not Submitted       DFWTAUN</td></td<>	SAN       KDFW.KATZZ2. BRIMA.RECKN. ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_out       20M FixClsd       Not Submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KATZZ2. BRHMA.RECKN. ABQ.Z.       SOUTH       10/22:51       10/23:38       23:20       -18       Scheduled_out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         DTW       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SoUTH       10/23:12       -66       Scheduled_out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:20       11/00:18       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWDNTIN       NORTH       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:20       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWDNTIN       NORTH       Candidate         ONT       KDFW.KATZ22 BRHMA.RECKN. ABQ.G.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_out       20M FixClsd       Not Submitted       DFWPX1N       NORTH       Candidate<	SAN       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not Submitted       DFWSAN1N       NORTH       Candidate         DTW       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       10/23:82       23:20       -18       Scheduled_Out       10M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         DAM       KDFW.KAT2Z2.BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:38       23:20       -18       Scheduled_Out       20M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KAT222 BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         ONT       KDFW.KAT222 BRHMA.RECKN.ABQ.E.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         PHX       KDFW.KAT222 BRHMA.RECKN.ABQ.E.       SOUTH       10/23:27       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWTX1N	SAN       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:39       23:38       -60       Scheduled_Out       20M FixClsd       Not submitted       DFWSANIN       NORTH       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.Z.       SOUTH       10/22:51       11/00:38       23:38       -60       Scheduled_Out       20M FixClsd       Not Submitted       DFWOTWOP       EAST       Candidate         DTW       KDFW.KAT222.BRHMA.RECKN.ABQ.G.       SOUTH       10/23:12       11/00:38       23:42       -66       Scheduled_Out       20M FixClsd       Not Submitted       DFWDTWOP       EAST       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:12       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         ONT       KDFW.KAT222.BRHMA.CNX.DR/HT       SOUTH       10/23:25       11/00:51       23:42       -69       Scheduled_Out       20M FixClsd       Not Submitted       DFWONTIN       NORTH       Candidate         PHX       KDFW.KAT222.BRHMA.RECKN.ABQ.F       SOUTH       10/23:27       11/00:05       00:00       -4       Scheduled_Out       20M FixClsd       Not Submitted       DFWTAUN

						Flight Op	erato	r - SWA TO	S Operation	s at 23:33	z					-
															Search	CI
7 💀	•	Г	OS Departure - Eligibility State = Can	didate										×		
Flight ID	Rwy	Dest	Route of Flight	Dep Gate	EOBT 🔺	ETOT	Top ETOT	Top Total Delay Savings OFF	Flight Status	TMI Info	Top CDR	Top Dep Gate	Eligibility State	Coord State		
WA400	E31R	MDW	KDAL.EMMTT4.BSKATLIT.J101.IGL00	EAST	10/23:35	11/00:01	23:48	-13	Taxiing_AMA	15M FixClsd	DALMDWOP	NORTH	Candidate	Not Submitted		
WA971	E31R	MSY	KDAL.EMMTT4.ZALEA.SWBLSU.AWDA	EAST	10/23:39	11/00:08	23:47	-21	Scheduled_Out	15M	DALMSY1S	SOUTH	Candidate	Not Submitted		
WA1261	E3 1 R	BNA	KDAL.EMMTT4.LOOSEMEM.CHSNE2.K	EAST	10/23:50	11/00:39	23:59	-40	Scheduled_Out	15M FixClsd	DALBNA1N	NORTH	Candidate	Not Submitted		
WA1385	E3 1L	LGA	KDAL.EMMTT4.LOOSEMEM.J42.GVE	EAST	11/00:41	11/01:49	00:50	-59	Scheduled_Out	15M FixClsd	DALLGAJ3	NORTH	Candidate	Not Submitted		
WA1161	E31R	MDW	KDAL.EMMTT4.BSKATLIT.J101.SPIP	EAST	11/00:46	11/01:56	00:53	-62	Scheduled_Out	15M FixClsd	DALMDWOP	NORTH	Candidate	Not Submitted		
WA44	E3 1L	MSY	KDAL.RAMBL5.BILEE.J87.IAHLCH.AW	SOUTH	11/00:50	11/01:05	01:01	-4	Scheduled_Out	10M	DALMSYOP	EAST	Candidate	Not Submitted		
7 🐻	III	В: т	OS Departure - Coord State = FO Sub	mitted												X



## Sample use of PDRR: Selecting a single flight to reroute using the RAD

		2				Traffic Situation Display (Dynamic Projection)							
4						Departure Viewer (Relative Time Range)					2		
File Fund	tions Vie	w											Help
Enter Fix@	s):	Group t	by: 🗌 Cole	or by:	Filter by:	Show.					Cu	rrent Time: 3	2107
	Add	· Fix	(0) AR	PT ARPT	ALL	▼ ● List					L	ast Update: 3	2106
Option	Sac	O AR	PT O Fix	FD	ALL	v C Time Bins					1	Hold Update	5
In the second se	and the second				11								24
Include:	jet je	Turbo	Prop		16	33 7 24 5 5 2 2 0 1 3 3 1 0 0 0							
	Super	Heavy	E Larg	e 🕑 Smal	2100								
		A CONTRACTOR OF A			2100		-						
	Active	Flights 🗾	Unknown I	DFix (0)		Route Amendment Show							1121
		BIGG	Y (16)			Add Route	GAY	EL (7)					C
ACTO	DTTME		ORIG	DEET -	ETA ETA	Recently Sent Search DR, Route Code: Get CDR Remove Flights		ORIG	DEET -	-	ACTO	OTTHE	
ACID AAL214T	2000	ETD P2105	LGA	DEST A	ETA FIX 2116		ETD P2105	JFK	DEST A	ETA FIX 2116	ACID EJA200	PTIME 2039 8	P21 -
AAL809T	1930	P2105	LGA	DCA DCA	2116	Show Merge ID	P2105	JFK JFK	LAX	2115	FLG3980 3802534		P21
AAL 3101 AAL 810T	2000	P2105 P2105	LGA	DCA	2116	Current Routes	P2105 P2110	JEK.	LAX	2116	EJA368		P21
AAL311T	21.00	P2110	LGA	DCA.	2121	🗶 🖉 AAL3101 KLGA., BIGGY. 175. HXE. CLIPRI. KDCA Rte Opts	P2140	JFK	LAX	2151	ASQ4335	2130	P21
AALS11T UAL142	2130	P2140 P2107	EWR	FLL	2151 2122		P2105 P2200	JEB JEK	ZBAA	2113 2215	BER7249 FIN6		P21
UAL1065	2337	P2201	EWR	MMNX	2216	Retrieved Routes	172200	JER.	Z DAM	6612	DAL46		P21
UAL118T	1930	P2105	EWR	HHUN	2113	💥 💌 HANUAL					EINITC	2100	P21
UAL119T UAL120T	2000	P2105 P2105	EWR	MHUN	2113	Assigned Routes					EIN104 LOT7	2130	21
UAL121T	2100	P2110	EWR	MHUN	2118	•					CNS610		P21
UAL122T	2130	P2140	EWR	MMUN	2148			1			EJA602	2000	21
UAL1082 JBU2067	0005 2155	P2227 P2102	EWR	PBI	2242			-			ASQ3970 THC417		P21
JBU543	2325	P2206	EWR	PBI	2223	Create Route Amendment Merge Use Last Sent Optimize Route(s)	1				DPJ70		P21
the second second second						ALL P-Time Sector TMI ID RRSTAT					AW14044		P21
				1				1			LX3579 L0F4195		P218
-						A 042301 2000					SKV7641		P21
						Preview Undo Amendments will be sent for 0 flights							
											1		
		A fi:2	~h+ f		$\sim$	to DCA has been adjusted for a rerevite using the Departure	<u>م ۱ / ا م</u>			nina			
		AIII	ynt I	iom i	LGA	to DCA has been selected for a reroute using the Departure	; vie	wer	, ope	enino			
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					in tha	RAD as a pop-up and displaying the current route for that	fliah	t					
				u	ip uit	TAD as a pop-up and displaying the current route for that	mgn	ι.					
			ha a	vaila	hlo T	OS route options can be displayed by clicking on the RTE (	Intin	nne l	hutto	n			
		11		vana		Conduct options can be displayed by clicking on the RTE	Jpin	1121	Julio	11.			
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16	33	7	24	5	5	2	2	0	1	3	3	1	0	0	0		
2100	2115	2130	2145	2200	2215	2230	2245	2300	2315	2330	2345	0000	0015	0030	0045		
\$								Route	Amendr	nent							×
					Retrie	ve Route	s					Add Rou	te		Shov		
	Rece	ently Sent	t	Search D	)B	Route Co	de:			Get CDR	Pa	move Flig	thte		nt/Route		
FIX											Ke	inove riig	JIICS	✓ Show	w Protect	ed Segments	P210
	Show	Merge ID	)														P210
		_			Curren	t Routes											P210
	×		_310T		KLGAB	EGGY.J75.	M×E.CLIF	R1.KDCA							F	Rte Opts 🌲	P214
	Retrieved Routes															P210	
		A 10				cu Route	,									<b>?</b>	
	MANUAL  Assigned Routes														<b>_</b>		
					Assign	ed Route	s										
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—— i																	-
	Create	Route A	mendmer	nt:	Merge	Us	e Last Sei	nt	Optimize	Route(s)							
	×	AL	L P	-Time									Sector	TM	II ID	RRSTAT	
	$\times$		L310T	2000								<b>?</b>	-	TRZDV		·	
			Preview		Undo			Amendn	nents will	be sent i	for 0 fligl	nts					
,		Send							Cancel							Help	
																•	

Zoomed in view of RAD for making route amendment.

To see the route options, the button to the right for that flight can be clicked.

## Sample use of PDRR: Viewing the available TOS route options

							Traffic Situation Di	splay (Dynamic Proje	tion)							×		
<u>*</u>							Depa	rture Viewer (Relative	e Time Range)									_ 🗆 🗙 📃
File Fun	ctions Vie	w																Help
Enter Fix	es):	Group I	oy: 🔲 Colo	or by:	Filter by	Show:										Cu	rrent Time:	2107
	Add	Fix	(i) A 10	ARP	T: ALL	💌 🖲 List										- L L	ast Update:	2106
		~	@ ARP	·1														
Option	S	⊖ AR	PT 🔘 Fix	Eb	X: ALL	Time Bins											Hold Upda	tes
Include:	🗹 Jet 🛛	🖉 Turbo 🛛	🗹 Prop		16	22 7 24 5	5 2 2	0 1 3	2 1	0 0	0							
	Col Comment					33 / 24 3	3 2 2	0 1 3		-								
	🖻 Super	🗹 Heavy	🗹 Large	e 🗹 Sma	2100	2115 2130 2145 2200	2215 2230 2245	2300 2315 233	0 2345 0000 0	015 0030	0045							
				F1	4			Route Amendment				1						•
	Active	Flights 🖻	Unknown D	FIX (0)			Retrieve Routes	Route Ameridanen			Show							
		RICC	Y (16)						Add Route	- Film		CAV	(EL (7)					C
		BIGG	11 (10)			Recently Sent Search	DB Route Code:	Get C			ht/Route Color	GAI						
ACID	PTIME	ETD	ORIG	DEST 📥	ETA FIX				Remove Flight	S 🗹 Sho	w Protected Segments	ETD	ORIG	DEST 📥	ETA FIX	ACID	PTIME	
AAL214T	2000	P2105	LGA	DCA	2116							P2105	JFK	LAX	2116	EJA200	2039	P21 🛋
AAL809T	1930	P2105	LGA	DCA	2116	Show Merge ID						P2105	3FK	LAX	2116	FLG3980	2110	P21
AAL310T AAL810T	2000	P2105 P2105	LGA	DCA	2116			AAL310T Route Op	10/15	×		P2105 P2110	JFK JFK	LAX	2116 2121	JBU2534 EJA368	2126	P21 P21
AAL311T	2100	P2105	LGA	DCA	2121	AAL310T	TMI Route Options		Reroute		Rte Opts	P2140	JFK	LAX	2151	ASQ4335	2130	P21
AAL811T	2130	P2140	LGA	DCA	2151	AALSIUT					Rte Opts	P2105	TEB	SLK	2113	BER7249	2130	P21
UAL142	2217	P2107	EWR.	FLL	2122		N	o TMI Route Options are a	/ailable.			P2200	3FK	ZBAA	2215	FING	2140	P21
UAL1065	2337	P2201	EWR	нинх	2216	MANUAL	FOS Options				<b>?</b>					DAL46	2026	P21
UAL118T	1930	P2105	EWR	MMUN	2113	MANUAL					Y					EIN1TC	2100	P21 P21
UAL119T UAL120T	2000	P2105 P2105	EWR EWR	NHUN	2113		💥 🗔 KLGAKLGABIGG	Y.J75.WXE.CLIPR1.KDCA				-		-		EIN104 LOT7	22130	P21
UAL120T	2100	P2105	EWR	MMUN	2118		🔀 🔲 KLGAKLGAJFK.	V16.DIXIE.V1.LEEAHCH0	PSBILITCAPKOKDCA.	KDCA		-				CNS610	2130	P21
UAL122T	2130	P2140	EWR	HHUN	2148											EJA602	2000	P21
UAL1082	0005	P2227	EWR	MROC	2242		KLGAKLGAWHIT	E.V1.ATR.V308.LAFLN.DEA	LE2.KDCA							AS03970	2109	P21
JBU2067	2155	P2102	HPN	PBI	2117	Create Route Amendment:	💥 🔲 KLGAKLGABIGG	Y.V3.MXE.CLIPR1.KDCA								THC417	2100	P21
JBU543	2325	P2208	EWR	PBI	2223	Create Route Amenument	-									DP370	2145	P21
						🔀 🗆 ALL P-Tim	Add to Retrieved Rou	tes Add to Amendm	ent Cancel Hel	IP TA	IIID RRSTAT					AWI4044	2035	P21
											RESTAT					LXJ579	2030	P21
						📈 🗆 AAL310T 2000				THE DV	<b>•</b>		_			L0F4196 SKV7641	2111 2130	P21 P21
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## Zoomed in view of RAD for making Route Amendment showing TOS options available for selection

## Sample use of PDRR: Preparing to use one of the TOS options as a reroute

	Traffic Situation Display (Dynamic Projection)	
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File Functions View		Help
Enter Fix(es): Group by: Color by: Filter b		Current Time: 2108
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BIGGY (16)	Recently Sent Search DB Route Code: Get CDR Add Route Color GAYEL (7)	C 1
ACID PTIME ETD ORIG DEST - ETA FIX	Remove Flights	ACID PTIME
AAL214T 2000 P2105 LGA DCA 2116	P2105 JFK LAX 21.16	EJA200 2039 P21
AAL809T 1930 P2105 LGA DCA 2116 AAL310T 2000 P2105 LGA DCA 2116	Show Merge ID         P2105         JFK         LAX         P2116           P2105         JFK         LAX         P2105         JFK         LAX         P2105	FLG3980 2110 P21 JBU2534 2126 P21
AAL810T 2030 P2105 LGA DCA 2116	Current Routes JFK LAX 2121	EJA368 2130 P21
AAL311T         2100         P2110         LGA         DCA         2121           AAL811T         2130         P2140         LGA         DCA         2151	₩         ≥         Aal310 <sup>T</sup> KLGA., BIGGY, J75, INEC, CLIPP1, KOCA          Rte Opts         ↓         P2140         DFK         LAX         2151           P2100         DFK         LAX         2131         DFK         LAX         2131	ASQ4335 2130 P21 BER7249 2130 P21
UAL142 2217 P2107 EWR FLL 2122	Retrieved Routes F2200 JFK ZBAA [2215	FIN6 2140 P21
UAL1065 2337 P2201 EWR MMMX 2216		DAL46 2026 P21
UAL118T         1930         P2105         EWR         MMUN         2113           UAL119T         2000         P2105         EWR         MMUN         2113		EIN1TC 2100 P21 EIN104 2130 P21
UAL120T 2030 P2105 EWR MMUN 2113	Assigned Routes and a second s	L0T7 2215 P22
UAL121T 2100 P2110 EWR MMUN 2118		CNS610 2130 P21
UAL122T         2130         P2140         EWR         MMUN         2148           UAL1082         0005         P2227         EWR         MR0C         2242		EJA602 2000 P21 ASQ3970 2109 P21
JBU2067 2155 P2107 HPN PBI 2122	Create Amendment: de Use Last Sent Optimize Route(s)	TMC417 2100 P21
JBU543 2325 P2208 EWR PBI 2223		DPJ70 2145 P21 AWI4044 2035 P21
	X Z ALL P-Time Sector TMI ID RRSTAT	L×J579 2030 P21
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		SKV7641 2130 P21
	Preview Undo Amendment will be sent for 1 flight	
	Send Cancel Help	
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