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

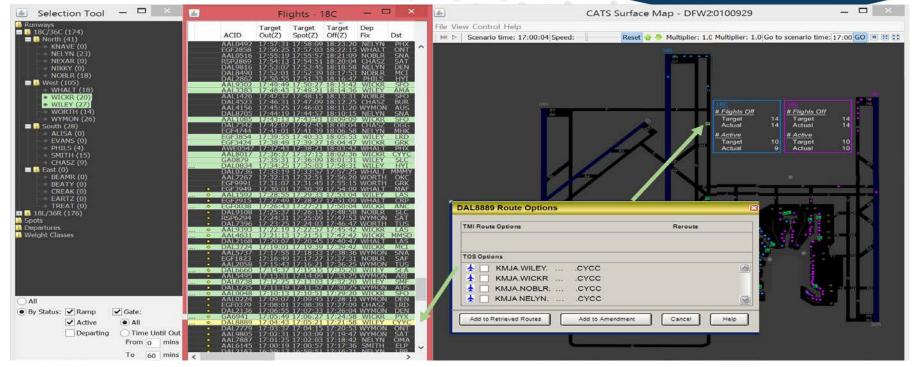
(not part of STORMY 2020 test but necessary for long term implementation of this architecture)

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)

- repitecture and associated requirements (continued
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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

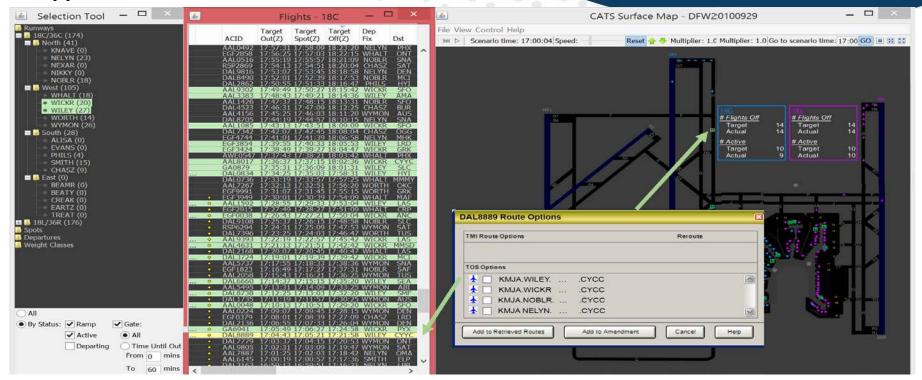
- Architecture and associated requirements (continued)
 - * From this point in time until the traffic manager chooses to evaluate the flight for a reroute, by exception, the dispatcher or FO software can submit a revised TOS

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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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. 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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. 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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

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4						Departure Viewer (Relative Time Range)					2		
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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
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,		Send							Cancel							Help	
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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

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		BIGG	11 (10)			Recently Sent Search	DB Route Code:	Get C			ht/Route Color	GAI						
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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				?					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
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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)	
	Departure Viewer (Relative Time Range)) _ _×
File Functions View		Help
Enter Fix(es): Group by: Color by: Filter b		Current Time: 2108
Add I Fix I ARPT ARPT: AL	▼ ● List	Last Update: 2108
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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 ^T 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
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	X Z ALL P-Time Sector TMI ID RRSTAT	L×J579 2030 P21
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