



ATD-2 Integrated Arrival/ Departure/Surface (IADS) System Phase 1 Informal Tech Transfers - Completed

August 2018

This document summarizes the informal tech transfer events that occurred during Phase 1 of the ATD-2 project (Sep 2017 – Aug 2018).

Date	Brief Description	Receiving Organization	Type of Transfer	Artifact	Comments
7 Sep 2017	Scratchpad processing and ON time predictions	FAA	Slides from remote demo	Email record, 7 Sep 2017 ON_times	
14 Sep 2017	Incomplete data in one of FAA feeds - TMI's that are not being passed through TFM Flow	FAA	Verbal	Email record, 14 Sep 2017	Need TFM and parsing folks in on further discussion
14 Sep 2017	IDAC proxy solution did help provide layer of abstraction from direct IDAC back end services	FAA	Verbal	Email record, 14 Sep 2017	
14 Sep 2017	Issue with TBFM metering information service	FAA	Verbal	Email record, 14 Sep 2017	Parsing it, but not relying on any arrival metering times due to the frozen STAs. Leads to lower quality ON times.
14 Sep 2017	Full automation "prior to pushback" is not possible without TTP and times sent to pilots, good EOBTs and/or calibration using EFTT/CTD buffers and proven taxi estimates	FAA	Verbal	Email record, 14 Sep 2017	
14 Sep 2017	Discussion on surface metering	FAA	Verbal	Email record, 14 Sep 2017	
Week of 9 Oct 2017	Tag up on potential for our Phase 3 ATD-2 work to provide lessons learned for North East Corridor work		Verbal		
16 Oct 2017	Challenges obtaining the APREQ restriction (RSTR) message from the TFM Flow Information SWIM feed	FAA	Written	White paper Email record, 16 Oct 2017	

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18-19 Oct 2017	TFDM Build 2 (B2) System Specification Document (SSD) kickoff meeting in DC. Starting point for FAA and their vendor to discuss 'Build 2' requirements. 'Build 2'= what we have been working on.	FAA, Leidos, TFDM Build 2 team	Verbal - Meeting Discussion	Meeting notes, 18 Oct 17 Meeting notes, 19 Oct 17	
30 Oct 2017	TTP Questions/Observations	Leidos	Email	Email record, 30 Oct 17	
3 Nov 2017	"NASA Air Traffic Management Demonstration Goes Live in Charlotte"	Public	Online video & article with pictures	https://www.nasa.gov/aero/nasa-air-traffic-management-demo-goes-live	
9 Nov 2017	ATD-2 Remote Demo - Phase 1A (data exchange and integration), Phase 1B (IDAC-like integration and time sharing to ramp) micro-phases; brief touch on Phase 1C plan (surface metering); some initial data in terms of how often the system is used for certain functions thus far; few new features of the system.	Many	Presentation	Video recording of demo - go to https://aviationsystemsdivision.arc.nasa.gov/research/atd2/remote_demos.shtml	
9 Nov 2017	ATD-2 Glossary, Acronyms	Human Solutions, Inc.	Documents	ATD2-glossary.pdf ATD2-acronyms.pdf Email record, 9 Nov 17	
20 Nov 2017	Answers to ATD-2 Operational Environment questions	FAA, JCAB	Spreadsheet of questions and responses	JCAB Questions Email record, 20 Nov 2017	

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18 Dec 2017	ATD-2 input for CDM quarterly newsletter	FAA, American Airlines, Delta	Brief write-up and pictures	CDM-Newsletter-SCT-CAT-ATD2.20171218.docx SCT-CAT.jpg ATD2_CLT_ramp.jpg ATD2_CLT_ATCT.JPG	
21 Dec 2017	Short ATD-2 video giving brief top-level view of project	Public	2 minute video	https://youtu.be/pMKrolMKXxE	
29 Jan 2018	ATD-2/STARS-E2 Tag-up	FAA, MITRE, Regulus Group	Meeting/discussion, slides	ATD2_for_STARSE2_Tagup_v2.pdf	
7 Feb 2018	Interview with Douglas Kennedy of FoxNews in CLT	FoxNews, Public	Verbal, video	Video and transcript of interview Email record, 12 Feb 2018	Remarks: "...it went very well. I made several laudatory comments re the collaboration with NASA. I am not sure he understood exactly what we were doing, but 'NASA' and 'NextGen' were closely tied together in his report. I am sure we will only see 10 seconds of 20 minutes of shooting footage, but it should be good"

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15 Feb 2018	ATD-2 update to NextGen Advisory Committee Subcommittee (NACSC). This briefing reported early benefits findings and lessons learned for three aspects of the ATD-2 Field Demonstration: data exchange and integration, collaborative surface metering, and overhead stream insertion.	NACSC	Presentation, slides	NACSC FEB 15 2018fnl.pdf (ATD2 slides begin on Slide 27 in the attached deck.)	
28 Feb 2018	ATD2 update covering data exchange and integration and collaborative surface metering.	SCT and CAT teams	Telecon presentation, slides	ATD2-Update-SCTCAT_20180228.pptx	
27 Mar 2018	ATD-2 brief to TRB webinar (topic: The Future of Airport Surface Management Tools and Benefits to Operational Efficiency)	Transportation Research Board (TRB)	Presentation, slides		
10 Apr 2018	ATD-2 brief to AOSP R&D Partnership Workshop	Public	Presentation, slides		
18 Apr 2018	Documentation of data flows, including several sequence diagrams	FAA	Document	NASA_ATD-2_Apreq_Negotiation.pdf Email record, 4/17-18/18	
25 Apr 2018	TFDM Build 2 PDR - Meeting Q&A	TFDM team - FAA, Leidos	Meeting notes	Email record, 4/25/18	
26 Apr 2018	TFDM Build 2 PDR - Presentation, Demo, & Meeting Q&A	TFDM team - FAA, Leidos	Meeting notes	TFDM_ATD2_B2PDR_Chat Email record, 4/26/18	

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2 May 2018	ATD-2 brief to CDM general session	CDM groups	Presentation, slides		
30 May 2018	ATD-2 Phase 2 Background information	FAA	Email questions/answers	Email record, 5/30/18	
2 Aug 2018	Alerting TFDM that the FIXM database schema needs to be capable of nulling values	TFDM team - FAA, Leidos	Voicemail	Email record, 8/2/2018	The schema change is being made
7 Aug 2018	FAA Quarterly Ames Visit	FAA	Presentation, slides		
21 Aug 2018	ATD-2 data analysis briefing to SWA Data Science Community	Southwest Airlines Data Science Community	Presentation, slides		