



ATD-2 Integrated Arrival/ Departure/Surface (IADS) System Final Phase 3 Metroplex IADS Informal Tech Transfers – Completed – TT3 Published

September 2021

This document summarizes the Phase 3 Metroplex IADS informal tech transfers that have been executed in FY21 (Oct 2020 - Sep 2021). Informal tech transfers from FY20 that were not listed in the *ATD-2 IADS System Initial Phase 3 Metroplex IADS Informal Tech Transfers* - *Completed* - *TT2.5 Published* document are also included.

Date	Brief Description	Receiving Group	Type of Transfer
On-going since 2020	ATD-2 knowledge transfer to other NASA projects	NASA ATM-X/DIP	Discussions, presentations
On-going since 2020	SWIFT Development and Analytics (D&A) Focus Group - General Meeting	TBFM PMO, airlines, SWIFT community	Discussions, presentations
On-going since 2020	SWIFT D&A Focus Group - TBFM Sprint 2 - TBFM and Airline Working Group Sessions	TBFM PMO, airlines, SWIFT community	Discussions, presentations
On-going since 2020	SWIFT D&A Focus Group - Best SWIM ETA	Airlines, SWIFT community	Discussions, presentations
On-going since 2021	SWIFT- Operational Issues Focus Group	Airlines, SWIFT community	Discussion
Various	Planning with AAL for Transition to TFDM at CLT	Airlines	Discussions, meeting notes
03/25/2020	Responses to TFDM questions (Industry Workshop) for team working on SWIM Segment 3 Shortfall Analysis Report (SAR)	TFDM	Email, spreadsheet
05/20/2020	SWIFT 10	SWIFT group	Discussion
06/03/2020	MITRE ATD-2 Tech Transfer summary	FAA	Document, spreadsheet

Date	Brief Description	Receiving Group	Type of Transfer
06/04/2020	SWIFT Analytics Group - Sprint 1 - TBFM SWIM Operator Needs	FAA, Airlines, SWIFT group	Discussions
07/08/2020	SWIFT 10.5	SWIFT group	Discussion
08/19/2020	SWIFT 11	SWIFT group	Discussion
08/24/2020	SCT/FET meeting - MITRE presented PACER app	SCT/FET group	Presentation, meeting notes
08/26/2020	ATD-2 Stakeholder engagement	Stakeholders	Presentation
08/28/2020	Briefing on STBO/RTC and ATD-2 Benefits	Spirit Airlines	Presentation
09/02/2020	SWIFT Development and Analytics (D&A) Focus Group meeting	TBFM PMO, Airlines, SWIFT community	Discussions, presentations
09/02/2020	SEATAC tag-up	SEA SAMS team	Demo
09/14/ 2020	SCT/FET meeting - NASA presented Phase 3 updates	SCT/FET group	Presentation
09/15/2020	SIGs to incorporate ATD-2 features in TFDM	TFDM team	Emails, data file, user manual
09/17/2020	ATD-2 Real-time ML and Services	NASA Data Community	Presentation
Sep 2020	SMP prediction accuracy analysis in ATD-2	TFDM user community	Paper
10/21/2020	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation

Date	Brief Description	Receiving Group	Type of Transfer
10/21/2020	Aerobahn-TFDM Workshop #2	TFDM user community	Discussion
10/28/2020	Practical ML problems being applied to aviation	TBFM Performance Assessment Team (TPAT)	Presentation
11/04/2020	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
11/15/2020	Southwest Airlines training of airline operators	SWA	Document
11/17/2020	CDM General Session Meeting	CDM community	Presentations
11/18/2020	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
11/18/2020	CLT Spot Prediction Adaptation	TFDM team	Email, data file
11/19/2020	SWIFT 12	SWIFT group	Discussion (no presentation)
12/02/2020	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
12/07/2020	FAA/MITRE - discuss summary report and catalogue of TT2.5 artifacts	MITRE	Discussion
12/07/2020, 12/11/2020, 12/15/2020	DFW Tower training	FAA	Document

Date	Brief Description	Receiving Group	Type of Transfer
12/15/2020, 12/17/2020, 12/18/2020	Envoy Airlines training of airline operators	Envoy Airlines	Emails, presentation, discussions
12/16/2020	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
12/17/2020	SWIFT Development and Analytics (D&A) Focus Group meeting	TBFM PMO, airlines, SWIFT community	Discussion (no presentation)
01/13/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
01/15/2021	SCT/FET meeting	SCT/FET members (FAA, Airlines, Airports)	Presentation
01/27/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
01/28/2021	ATD-2 ML airport surface model and DIP introduction	American Airlines (Tim Niznik and team)	Discussion, presentation
01/29/2021	FAA/MITRE summary report and catalogue of TT2.5 artifacts	MITRE	Document list
02/10/2021	SCT Meeting	SCT, CSIT (FAA, Airlines, Airports)	Discussion (no presentation)
02/18/2021	SWIFT 13 (Real-time machine- learning based services, DIP subproject overview)	SWIFT group	Presentation
02/24/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation

Date	Brief Description	Receiving Group	Type of Transfer
02/25/2021	Surface NIWG		Presentation
03/10/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
03/18/2021	NAC Subcommittee meeting	NAC Subcommittee members	Presentation
03/24/2021	CSIT for IAH (ATD-2 benefits)	CSIT (FAA, Airlines, Airports)	Discussion, presentation
03/24/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
04/06/2021	ATD-2 Demonstration	NASA HQ	Demonstration at NASA Ames Future Flight Central facility
04/07/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
04/21/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
04/26/2021	Art of the Possible - Machine Learning - Mosaic ATM	FAA	Presentation
05/04/2021	Lessons Learned on Tech Transfer to Industry for Mobile App	FAA / MITRE	Discussion
05/05/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation

Date	Brief Description	Receiving Group	Type of Transfer
05/07/2021	How ATD-2 is handling wake category	TFDM team	Email, XML file
05/11/2021	Discussion with SWS project	SWS project	Discussion (no presentation)
05/19/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
05/19/2021	FET/SCT meeting to discuss Task 100 - Alternate Route test	FET, SCT, NASA	Demo of NOD (NAS Operations Dashboard) and discussion
05/27/2021	SWIFT #14	SWIFT community	Discussion, presentations
06/02/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
06/16/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
07/08/2021	Lessons Learned from ATD-2 for CSIT	CSIT Team	Discussion (no presentation)
07/13/2021	Gate conflict counts in ATD-2	TFDM PMO	Email, spreadsheet
07/14/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
07/28/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
07/29/2021	Q3 Meeting, DMTA RTT - MLAI Working Group	Data Mining and Prediction subgroup under System Wide Safety	Presentation

Date	Brief Description	Receiving Group	Type of Transfer
		RTT organized by NASA/TI and FAA	
07/29/2021	Joint SCT/FET CDM Task 92 meeting	SCT/FET CDM team members	Presentation
08/11/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
08/25/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation
09/07/2021	ATD2 Lessons Learned for FAA Remote Tower (or Remote Ramp Tower) support staff	AAL, DIGITALiBiz, Ricondo & Associates	Discussion
09/08/2021	Stormy 2021 Field User bi-weekly meeting	AAL, SWA, Envoy, DFW Tower, DAL Tower, ZFW	Discussion, presentation