Minutes of the Federal Aviation Administration (FAA)
SWIM Industry-FAA Team (SWIFT) Meeting #2
February 8, 2018 (9:00a.m.-4:00p.m.)

American Farm Bureau Federation, 600 Maryland Avenue, SW, Suite 1000W
(Washington Room), Capital Gallery West, Washington, DC 20024

1. **Opening of the Meeting**
   1.1. The second meeting of the Federal Aviation Administration (FAA) – SWIM Industry-FAA Team (SWIFT) was called to order by CINP Group Manager and SWIFT Sponsor Joshua Gustin, on Thursday, February 8, 2018 at 9:00 a.m. The meeting was held at the American Farm Bureau Federation, 600 Maryland Avenue, SW, Suite 1000W (Washington Room), Capital Gallery West, Washington, DC 20024.

   1.2. Representatives from FAA, American Airlines, Alaska Air, Delta, UPS, Southwest Airlines, Spirit, United, FedEx, Horizon Air, Military USAF, NASA, Mitre, Airlines for America (A4A), Rockwell Collins/ ARINDirect, Sabre Systems, SeaTec, SaabSensis, US/ IBM, Passur, Harris Corporation, Avmet, Thales, LS Technologies, Noblis, IBIZ, Metron Aviation, JMA, airlines, and the public attended. See Appendix A for more information about attendees.

   1.3. Joshua Gustin (FAA CNIP Group Manager), Felisa White (FAA SWIFT Fed Lead), Rob Goldman (Delta), Jeri Groce (SWIM Program Manager), David Almeida (LS Technologies, Facilitator) welcomed attendees to the meeting on Thursday morning.

The meeting opened with comments from Joshua Gustin, who reiterated that the use case-centric session was intended to be a discussion designed to foster collaboration and communication. Rob Goldman spoke to SWIM data's ability to improve NAS operations and better the overall aviation community. He emphasized the need to categorize and better attribute the data in order to more efficiently assist users. Following open comments there was a review of recent SWIFT related workgroups, activities, and surveys that took place since the last SWIFT Meeting on November 9, 2018. Additionally, participants were provided with a SWIM overview and review of key terms as well as asked to provide feedback and suggestions for future efforts.

   1.4. Review of Current Tasking
       1.4.1. OSD Stakeholder Forum Status
           - Alex Murray provided an overview of OSD/ Work group Meeting and outcomes of the session. Next meeting scheduled March 1, 2018
           - Will coordinate next session to be in person and aligned with the next SWIFT meeting
       1.4.2. SMES Use Case/ Function Description Review
           - Stuart Wilson provided overview of the TFMS Flight Information Use Case storyboard
           - TFMS Flight Information is fed by 6 different systems. Objective is to get a large picture of what's going on in the NAS so ATC can implement flow

programs. TFMS has been broken into two categories of data for this exercise: Flight Data & Flow Data

    1.4.3.   Results of the Prioritization Survey

2. Review of Use Case Initial Review Framework – Traffic Flow Management System (TFMS) and Q&A / Terminology Alignment with John Haman
- Paul Losee from the TFMS program provided insights into the data produced by TFMS and answered questions from the audience
- New Reality based on new information service
  o How does the Trajectory Option Set (TOS) fit into brave new world?
  o Ability to receive the large volume of data is useful, but it requires knowledge about FAA business processes. The airlines need understandability without having to know how the FAAs back-end systems all work.
  o The intent is that the airlines are better informed, so they know what to ask for and how to ask for it
- Future state: Future NAS Operations
  o Our goal is to provide the data and equip the airlines with information to make better decisions
  o Establish a common language to allow industry and the FAA to come together to solve the aviation community's greatest challenges

Next Steps
- Incorporate notes from today into the use cases and send them out for comment and review.
- Questions:
  o Is there a sample of the functional document?
    ▪ A SMES Functional Description Document is developed and available on the SWIFT document library. (http://connect.lstechllc.com/files/SMES-Use-Case-Document-Final-v2.docx)
  o Helpful to have the functional documents first before reviewing the Use Case Documents
  o When will the functional documents be developed?
    ▪ Targeting May for Use Cases and Functional documents as well

  2.1. Industry Priorities: Initiatives & Metrics
- Interactive Work Session and Discussion

3. Time Based Flow Management (TBFM) Information Service
- Vikrant Chokshi from the TBFM program provided insights into the data produced by TBFM and answered questions from the audience
- Much of the discussion centered around the naming of the data elements produced by TBFM and other SWIM Information Services
  - Estimated Time of Arrival (ETA), and Scheduled Time of Arrival (STA) are data elements generated by multiple FAA systems
  - Each FAA system has its own definition for ETA and STA, which can be in conflict with each other
  - It is the goal of SWIFT to generate documents defining the data elements from each Information Service and how they related to each other
  - Defining the semantics around the data produced by the FAA will help users understand the differences and how they can be used
- Decomposition of TBFM data elements
- Sourcing Time Based Flow Management information
- Decomposition of TBFM Data by phases of flight
- Current State: NAS Operations

4. NAS Flight Information TFMS
- Decomposition of TFMS – Flow Information
  - o Flight/Flow not in FIXM
  - o CDM Questions
  - o Flight restrictions

Current State: NAS Operations
Problem Statement
- There are a variety of constraints which can be environmental, departure runways, etc. This is an opportunity to integrate them and share the information

Traffic Flow Management System
- Correlate TMIs to a flight – what does this mean?
  - o If there is a dynamic flight list, we can provide some matching

New Reality Based on New Information Services
- New STA issued for the aircraft and shared with downstream controllers and AOC
- Metered 40-50% of the time

Future State: Future NAS Operations
- For TBFM, publish some restriction parameters that could be utilized with different metering points and locations. This could help solve some of the issues
- Integration into one TMI. Overlaying delays are a huge issue. The systems aren't talking to each other. Future state – the systems need to be talking to each other.
- For the use cases, need to know about it AND need to be able to do something about it in order to be able to realize the benefit

Benefits of Improved Metering Information

- Utilization of sophisticated SWIM data – how can we work with you to start quantifying and conduct a post ops analysis (in the interim while we are waiting for the documentation). How do we know which data elements to grab in these use cases?

5. Closeout/Action Items

Next Steps
- Input on Use Cases will be extended to the end of March 6, 2018
- Leverage feedback into use case & Ops Functional Description document to establish a Use Case Review Workgroup that would report out to the SWIFT
- American, Delta, UPS, Alaska and SWIFT attendees agreed to smaller working groups for the Use Cases

Other Closeout
- Taking these topics to other forums to continue the conversations (March 8 Producers forum, etc.)
- Next meeting will be May 10, 2018

Appendix A: SWIM Industry - FAA Team (SWIFT) Meeting #2 – February 8, 2017

Tony Creswell, American Airlines	Dave Hughes, FAA	Felisa White, FAA
Kathryn Crispin, American Airlines	Anuja Verma, Mitre	Jeri Groce, FAA
Tim Niznik, American Airlines	Frank Oley, A4A	Joshua Gustin, FAA
Steven Osterdahl, Alaska Air	Thomas Green, Rockwell Collins	Carol Shiflett, LS Tech
Rob Goldman, Delta	Stacy Mulder, Rockwell Collins	Stuart Wilson, LS Tech
Bill Tuck, Delta	Nicholas Hoffman, Sabre Systems	Dave Almeida, LS Tech
Dorsey Demasters, UPS	John Buchanan, SeaTec	John Haman, LS Tech
Barbara Mebane, Southwest	James Tochihara, SeaTec	Korin Torrence, Noblis
Bill Sperandio, Southwest	Rachel Kline, SaabSensis	Alex Murray, Noblis
Sheila Wentz, Southwest	Matthew Bellinger, SaabSensis	Stefanie Calabrese, Noblis
Luis Mesen, United	Noah Kaufman, US/ IBM	Luke Curns, Noblis
Justin Lonie, Fedex	David Brukman, Passur	David Vera, Noblis
Tim Rudolph, Fedex	Steve Link, Harris	Vic Uberoi, IBIZ
Daniel Torres, Fedex	Douglas Harvey, Harris	Marcus Lowther, Metron Aviation
Ken McNaught, Horizon Air	Dave Rimmeli, Harris	John Croft, FAA
Joshua Kuntzman, Military USAF	Lisa Sullivan, Harris	Biran Lee, Delta
Heather Arneson, NASA	Mark Klopfenstein, Avmet	
Chris Torxell, FAA	Brian Leaton, Thales	
Francisco Bermudez, FAA	Franco Basti, Thales	