

Minutes of the Federal Aviation Administration (FAA) System Wide Information Management (SWIM) Industry Collaboration Workshop and Full SWIM Industry-FAA Team (SWIFT) Meeting #13

February 18th, 2021

Zoom Conferencing System Virtual Event

1. Virtual Session & Registration:

- 1.1. The meeting was held online, via Zoom conferencing system on February 18th at 12:30pm. The 3.5-hour event was called to order by Josh Gustin, FAA Communications, Information, and Network Programs (CINP) Group Manager within the Program Management Organization (PMO).

2. Introduction/Welcome:

- 2.1. Welcoming Remarks – Kris Burnham Joshua Gustin, and Rob Goldman.
- 2.2. Kris Burnham opened the welcome portion of the event by thanking everyone that was a part of the SWIFT forum and several focus group, she also announced her retirement from the FAA. Expressed her well wishes for the group and continued success going forth.
- 2.3. Collectively the speakers listed above thanked the attendees for their continued interest and participation of the SWIFT forum.

3. SWIFT Update – (David Almeida – LS Technologies)

- 3.1. David continued to thank all attendees for joining the virtual SWIFT and highlighted the attendee registration count of 328 people. David provided quick data points on attendees highlighting 82 were new and had never attended a SWIFT meeting before.

4. SWIFT Focus Group: Operational Context & Use Case Documentation Updates – (Xavier Pratt, – LS Technologies)

- 4.1. Xavier previewed current Operational Context Document status and highlighted those planned for release in the next month. For more information on attending the Focus Group for Operational Context & Use Case Documents please feel free to reach out to: Ray Mitchell, Email: ray.mitchell@lstechllc.com. To review current documentation please visit <https://nsrr.faa.gov/library> or <https://connect.lstechllc.com/index.cfm/main/swifthome>.

5. SWIFT Operational Issues Focus Group Update: (Chris Gottlieb – JetBlue)

- 5.1. Chris provided attendees with a quick recap of the Aviation Case Study activities that were covered in detail during SWIFT 12. Chris informed the attendees that the latest case study the group seeks to run Operations with more predictability instead of the 2-minute warning, that makes daily Operations more difficult. Chris concluded the Ops Issues Focus Group with a preview of the Early Planning for Disruptions tabletop.

6. SWIFT Development and Analytics Focus Group: (Erin Cobbett Delta, and Mike Jagmin – United)

- 6.1. Erin and Mike provided status updates on the TBFM SPRINT 2 and SWIM ETA Full Timeline activities. Erin informed the attendees the Development and Analytics Focus Group focuses on the technical side and seeks to develop open source code, visualize data, and create docs to help the community navigate through the SWIM data. Erin pointed out that data is not proprietary, anyone who wants to leverage SWIM data can. Mike provided specifics on the SWIM ETA Full Timeline – the problem statement/opportunity of SWIM ETA, is airlines seek to better understand how the data they submit is used and how it impacts the outputs coming from the SWIM feeds. Both Erin and Mike concluded the presentation with the focus group's project list

for 2021 and a sneak peek of the discussion topics for the next Full Development Analytics Focus Group session scheduled for March 23, 2021.

7. NAS Producer Program: Time Based Flow Metering (TBFM) (Robert Tyo – FAA), (Yong Li – FAA)

7.1. Bob provided a brief status update on the program, and shared current hardware installations and postponements because of COVID19. Bob informed the attendees of the collaborative effort of the Bi-Weekly Team in which members from the Development Analytics Focus Group, alongside NASA and MOSAIC provided several issues that needed further investigation at the program level. Yong Li provided a detailed walk through of the issues - MIS easier to understand, what the data elements mean, and how the user can use it to support their analysis. Yong also informed attendees that developer vendor Leidos is supporting to develop enhancements to the TBFM data flow including the creation of two new data elements.

8. Special Topic: Early Planning for Disruptions (Ops Issue #3) Tabletop Exercise

8.1. The Table Top Exercise was facilitated by David Almeida and supported by a panelist of various SMEs. The range of panelist SMEs represented operational airspace user, airline dispatch, pilot, business aviation, air traffic, data scientist, and prototype developer. The exercise presented the environment, impacts, and posed several questions to the panelist seeking to gain their perspectives on actions that would take place from the operations side and the data that could potentially be leveraged to resolve the scenario problem. The exercise presented several vignettes each a slight tweak to the overall issue, environment, and actors/panelist.

9. Flight Planning Modernization (Ops Issue #2) Atousa Ghafouri – FAA

9.1. Atousa provided the attendees with a quick update on Common Support Services Flight Data (CSS-FD). Atousa informed the attendees of the latest Risk Reduction Activities, in which the group has held several meetings engaging the airline community (Ops Focus Group) to discuss the upcoming service capabilities to gain buy in and validate early or preliminary system prototypes.

10. NASA ATD2, Data Fuser Updates & the Digital Information Platform (Jeremy Coupe - NASA), (Shawn Gorman - MOSIAC ATM), and (Mirna Johnson - NASA)

10.1. Jeremy Coupe opened the discussion with providing an update on NASA ATD2 Phase 3. The discussion focused on real time machine learning based on SWIM services. Jeremy provided a high level description of machine learning and how it can provide scalability. He also provided an updated on FUSER focusing on how FUSER is enabling faster development of data driven services. The next portion of the NASA presentation covered the new initiative Digital Information Platform (DIP). Mirna provided the background and vision for DIP - *Accelerate transformation of the NAS through the development of a foundation for advanced, data-driven, digital services from traditional operations and new entrants to promote cohesive decision making.* She also walked the attendees through the formulation process and inputs, ending with a preview of the high interest services, notational DIP visualization, potential benefits, collaboration opportunity, and finally soliciting feedback from the attendees. The group concluded their presentation and provided the following links to access the material that was presented during SWIFT 13.

https://www.faa.gov/air_traffic/technology/swim/swift/media/SWIFT%20Meeting%20Presentation%206%20Day%202%205_22_19.pdf

<https://aviationsystems.arc.nasa.gov/atd2-industry-workshop/presentations.html>

https://aviationsystems.arc.nasa.gov/atd2-industry-workshop/fuser/ATD-2-Industry-Workshop-Documentation-Outline_81565170.html

11. SWIFT Widgets

- 11.1. Due to time constraints the SWIFT Widgets teaser discussion and presentation was shortened to only inform the attendees of near-term future goals, potential source code sharing of predeveloped widgets.

12. Closing Remarks

- 12.1. To kickoff closing remarks the SWIFT team shared the live NASA mission to Mars and the Perseverance landing. Joshua, Stefanie, Kristin, Rob, and David expressed many thanks to the presenters and volunteer community. David informed the attendees of the next SWIFT event (SWIFT 14), scheduled for May 20th, 2021.

13. Meeting Adjourned

Appendix A: SWIM Industry - FAA Team (SWIFT) Meeting #13 Attendees – February 18, 2021

Please note due to large number of attendees a link with attendee data can be provided as requested/required.