

Minutes of the Federal Aviation Administration (FAA) System Wide Information Management (SWIM) Industry Collaboration Workshop and Full SWIM Industry-FAA Team (SWIFT) Meeting #12

November 19th, 2020

Zoom Conferencing System Virtual Event

1. Virtual Session & Registration:

- 1.1. The meeting was held online, via Zoom conferencing system on November 19th 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 – Joshua Gustin, Mark Denicuolo, Stefanie Calabrese, Rob Goldman, and David Almeida.
- 2.2. Collectively the speakers listed above thanked the attendees for their continued interest and participation of the SWIFT forum. Mark Denicuolo provided his insight on the progression of the SWIFT events and expects to see more great things come out of the collaborative effort.

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 268 people. David provided quick data points on attendees highlighting 68 who were new and had never attended a SWIFT meeting before.

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

- 4.1. Ray previewed current Operational Context Document status and highlighted those planned for release in the next month. In conclusion Ray informed the attendees that Terminal Flight Data Management (TFDM) Terminal Procedures Publication (TPP) Use Case documentation continues to be developed and should be delivered soon. 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 reminder of the focus group's main goal: to Address NAS-wide operational issues that might benefit from information sharing between organizations. Chris affirmed the importance of having access to SWIM data and how that has given his organization the ability to address some of their issues, often leading to incorporation and acceptance from JetBlue **Business Intelligence Team**, for net quantified dollar savings for airlines and operations improvements. Chris revisited the prioritized list of projects/issues that the focus group plans to tackle in the upcoming year of 2021. His presentation led to great dialogue with highlights on the potential use of Artificial Intelligence, and how that could be used to extract additional insight or assist in making predictions to support operations. Chris also provided a quick status update on the Flight Plan Modernization, highlighting the current engagement, activities, and planning. This initiative/issue is currently shaped into two case studies (Delay Route Deviations and Delay Prediction Traffic Count Monitoring). The next user group engagement will be planned for early December 2020.

6. SWIFT Development and Analytics Focus Group: (Mike Jagmin – United)

6.1. Mike provided a recap of the purpose and background of the Development & Analytics Focus Group. He pointed out that all the work currently being done is made possible by the collaborative effort between the two focus groups: Development/Analytics and the Operational Issues Focus Group. The goal remains the same; to share information to ensure the right solutions are investigated and ultimately developed. Mike informed the attendees at a high level of the status of current SPRINT 2 TBFM Delay activities. This is a continuation of efforts to investigate solutions and improve data interpretation and is currently being supported by cross organizational Bi-Weekly sessions with the TBFM producer team, airlines, NASA, and support vendors. Mike also informed the attendees of the progress made on the new issue SWIM ETA Full Timeline, in which a small sub team was formed in October. That sub team has developed an initial problem statement/description and began looking into both historical and real time data to support discovering resolution. He concluded his 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 the week of December 14, 2020.

7. Aviation Case Study: Delay Route Deviation (Chris Gottlieb – JetBlue)

7.1. Chris provided the attendees with the case study objectives, high level investigation strategy and notational timeline. He walked the attendees through the executive summary which illuminated the environment, problem statement, and ultimate goal/resolution. Chris also gave a quick refresher on the Honeycomb (MITRE/UBER3) widget that was previously briefed out with a demo at SWIFT 10. Currently the team is working on expanding the Honeycomb widget to incorporate data elements/capabilities of NAS Common Reference (NCR). Chris concluded his presentation with the team's planned next steps.

8. Producer Program: Terminal Flight Data Manager (TFDM) (Doug Swol – FAA), (Steven Lent – Mosaic)

8.1. Doug provided a brief status update on the program, an overview of how subscribers connect to the TFDM SWIM Terminal Flight Data Publication (TTP) services, and how the services can identify impacted flights. He also shared current hardware installations and postponements because of COVID19. Steven Lent provided a detailed walk through of several of the TFDM services starting with the Traffic Management Restriction Service (TMR). He provided the attendees with a look into how the service retrieves information, unique elements, and general parameters. Steven continued to walk the attendees through the Flight Data Service, Surface Metering Program Service, and the Flight Delay Service providing the same detailed exploration into data elements and sources.

9. SWIFT Winds Demo (Mike Jagmin – United Airlines)

9.1. Mike provided background into how the widget for SWIFT Winds went from an idea to a proof of concept. United Air Traffic Coordinators (ATC) had expressed interest in Integrated Terminal Wind System (ITWS), and how it was an opportunity to explore a new SWIM data feed. The expected benefits of the widget are access to real time wind data with higher refresh rates and more granular wind readings for center field winds, this could drastically change which arrival and departure runways would be best suited Mike shared the current environment/operation and the need or business case for the widget. Mike concluded the presentation with a live demo of the widget in which he picked an airport and showcased the winds, speed, runway, and hazards.

10. Information Service Roadmap (Xavier Pratt – LS Technologies)

10.1. Xavier provided the attendees with a quick recap of the purpose of the Information Service Roadmap – a view into services with dates of expected deployments/user testing.

Xavier quickly reoriented the attendees to view SWIM service by phase of flight and began to introduce several of the Services that the roadmap covers. Xavier walked through several of the phases to included but not limited to (Departure Phase, En route Phase, and Arrival Phase), providing a snapshot into the service(s), deployment dates, and operational context documents as applicable.

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. Josh, Stefanie, Kristin Cropf, Rob, and David expressed many thanks to the presenters and volunteer community that makes SWIFT so very successful. David informed the attendees of the next SWIFT event (SWIFT 13), scheduled for February 18th, 2021.

13. Meeting Adjourned

Appendix A: SWIM Industry - FAA Team (SWIFT) Meeting #12 Attendees – November 19, 2020

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