

Minutes of the Federal Aviation Administration (FAA) System Wide Information Management (SWIM) Industry Collaboration Workshop and SWIM Industry-FAA Team (SWIFT) Meeting #14

May 27th, 2021

Zoom Conferencing System Virtual Event

1. Virtual Session & Registration:

1.1. The meeting was held online, via Zoom conferencing system on May 27th at 12:30pm EDT.

2. Introduction/Welcome:

2.1. Welcoming Remarks – Mark DeNicuolo, Joshua Gustin, Rob Goldman, and Kristin Cropf.

2.2. Mark DeNicuolo opened the welcome portion of the event by thanking everyone that was a part of the SWIFT forum, acknowledge the “return to normal” as we are starting to see the country open up again. Mark concluded his welcoming with highlights from the event agenda and once more thanking the attendees for the continued support of SWIFT.

2.3. Collectively the speakers listed above thanked the attendees for their continued interest and participation in 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 over 400 people. David provided quick data points on attendees, 96 of which were new to the SWIFT.

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. 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 current prioritized issues highlighting those that are active. Chris walked the attendees through the Flight Planning over IP activities and provided insight into the next steps for the initiative. Chris concluded the update for the Ops Issue Focus Group with soliciting attendees to join the group and provided contact information.

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

6.1. Erin and Mike provided status updates on the TBFM SPRINT 2 and SWIM ETA Full Timeline activities. Erin provided a quick recap of the focus group background and purpose.

6.2. Mike provided a status update on the ETA initiative and current status of being placed on hold with the expectation the next Development and Analytics Focus Group session will provide guidance as to plans for the ETA initiative and focus group as a whole.

6.3. Both Erin and Mike concluded the presentation with the focus group’s project list and a sneak peek of the discussion topics for the next Full Development Analytics Focus Group session scheduled for June 17th, 2021.

7. Special Topic: Notices to Airmen (NOTAMS) Industry Update: Jeri Groce, FAA

7.1. Jeri informed attendees on the latest activity from the NOTAMS group, highlighting the industry challenge for Application Programming Interface (API). Jeri thanked all of those who were involved from including FAA, NASA, and Airline Industry. The collaborative effort will address the industry feedback and provide a simplified machine to machine interface to help improve access to NOTAM data. Jeri presented a high level walkthrough of the 21 individual solution

biding challenges, the benefits of the API concept, and concluded with a notional timeline for when wider use could be expected around Fall of 2021.

8. NAS Program: Terminal Flight Data Manager (TFDM) Lab Connection: Doug Swol, FAA

8.1. Doug and team provided an update on the Flight Operator System (FOS) Testbed activities. Doug provide a quick overview of the TFDM program highlighting locations and deployment status, along with the purpose of the testbed – an environment that would allow industry to connect to TFDM before it is fully operational. The testbed provides testing of both TFDM Terminal Publication (TTP) and the Collaboration Service (TFCS). Doug also informed the attendees of the objectives of the testbed and the scenarios that were developed to initiate the activities of the test.

8.2. The TFDM team then provided a very informative demonstration of several of the test case scenarios and showcased how the testbed responds under each scenario. Doug and team concluded with a general question and answer session, more details provided in the companion [SWIFT 14 QA documentation](#).

9. SWIFT Update: NY Area Study on Early Planning For Disruptions: Chris Gottlieb, JetBlue & Mark Hopkins, LS Technologies

9.1. Chris opened up the discussion with a quick recap on the previous activities that supported the New York Area Study such as the Honeycomb Uber H3 visualizations and the work that MITRE had completed. Chris informed the attendees of the environment and the problem statement/area exposing the current pain points and impacts to operations.

9.2. Mark walked the attendees through a very detailed approach for the study, that highlighted potential sources of data for investigation and analysis, such as SWIM Flight Data Publication Service (SFDPS), and Traffic Flow Management Data (TFMdata).

9.3. Mark presented the current project timeline highlighting activities that will stretch into 2022. The team concluded the presentation with the next steps, answered questions and solicited attendees to join the effort.

10. Special Topic: Trajectory Based Operations (TBO) Update (Steve Bradford – FAA)

10.1. Steve Bradford, Chief Scientist for NextGen and Architecture, presented a very detailed update, introduction, and evolution of TBO. Steve shared with attendees the International Civil Aviation Organization (ICAO) TBO concept, highlighting TBO describes the lateral, vertical and temporal flight profile. Steve discussed how a robust information exchange regimen for sharing constraints, intent, performance, and other flight related data is a key TBO enabler.

10.2. Steve discussed the role of flow information for air traffic flow management exchange is required for TBO and introduced the Flow Information Exchange Model (FLXM). He also presented the Flight Information eXchange Model (FIXM), research and validation efforts, and discussed some of the multiple regional TBO capabilities. Steve walked attendees through the differences between the two data standards.

10.3. Steve described Automation Evolution describing the evolution of modernizing FAA automation platform and provided a short video clip on TBO and some of the expected benefits. The TBO presentation concluded with a general question and answer session, more details provided in the companion [SWIFT 14 QA documentation](#).

11. SWIFT Portal: Michael Pozsgay, FAA & Doug Harvey, L3 Harris

11.1. Michael opened up the presentation with an announcement that the SWIFT Portal Deployment that went live on May 26th. Michael informed attendees who had active accounts with SWIM Cloud Distribution Service (SCDS) that current redirects would stay in place for a year and informed the attendees of two issues that will have subsequent updates.

- 11.2. Doug walked the attendees through some of the key feature of the SWIFT Portal including (Community Forum, Service Discovery, Self-Service, and SWIM Service Status. Doug and Michael concluded the presentation with contact information and answered questions.

12. SWIM Data: Widget Case Study Briefing: Sandie Steele, LS Technologies

- 12.1. Sandie Steele opened up the presentation with a quick overview and background of SWIM data and the supporting Widgets. Sandie focused in on the Fix Availability Ticker and provided the airline industry perspective on how the widget could help to improve current operations from a dispatchers' point of view. Sandie provided several real world applications of the Ticker widget and concluded by answering questions.

13. Information Services Roadmap Update: Xavier Pratt, LS Technologies

- 13.1. Xavier provided a quick general status update on the Information Services Roadmap activities showcasing the phases of flight that are currently covered by each service. In conclusion, Xavier informed attendees that the Roadmap is a living snapshot of the current planned deployments; any future updates will be incorporated accordingly.

14. Closing Remarks

- 14.1. Closing remarks were provided by Joshua, Stefanie, Rob, and David who collectively highlighted topics from the event that sparked interactive conversation with attendees. To name a few TBO, New York Area Study, and TFDM Lab Connection. The collective panelist expressed many thanks to the presenters and volunteer community. David informed the attendees of the next SWIFT event (SWIFT 15), scheduled for August 19th, 2021.

15. Meeting Adjourned

Appendix A: SWIM Industry - FAA Team (SWIFT) Meeting #14 Attendees – May 27, 2021

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