Minutes of the Federal Aviation Administration (FAA) System Wide Information Management (SWIM) Industry Collaboration Workshop and SWIM Industry-FAA Team (SWIFT) Meeting #18

May 25, 2022

1. **Virtual Session & Registration:**

   1.1. The SWIFT 18 meeting was held online, via Zoom Meeting conferencing system on May 25, 2022, 12:30pm ET.

2. **Introduction/Welcome:**

   2.1. Welcoming Remarks – Mark DeNicuolo, Josh Gustin, and Rob Goldman.

   2.2. Mr. DeNicuolo opened the welcome portion of the event by taking a few moments to highlight specific agenda topics that he believed would be of particular interest to the SWIFT attendees. Mr. DeNicuolo also informed the attendees of the upcoming hybrid SWIFT 19 event which will be the first face to face event since February 2020.

   2.3. Mr. Goldman expressed his excitement to learn more about the case study and updates from NAS programs.

3. **Special Announcement: SWIM Search and Rescue Pilot Contact Information Data Field Update: - Lucas Curns (FAA)**

   3.1. Mr. Curns provided attendees with a special announcement on current plans for the SWIM Search Rescue Pilot Contact Information Data Field Update. Mr. Curns provided details into what information the data field contains, and the most frequently listed data points. Mr. Curns concluded his announcement by informing attendees they would have an opportunity to provide feedback on the potential impact of no longer having access to the data field specifically Field #18.

4. **SWIFT Focus Group Updates: Operational Context Document Updates: - Ray Mitchell (LST)**

   4.1. Mr. Mitchell previewed current Operational Context Document status and highlighted the streamlined approach to retrieving the latest documentation on SWIM services. Mr. Mitchell concluded his presentation by providing contact information for those who may be interested providing feedback on documentation or for questions. Mr. Mitchell also provided the link to the NAS Service Registry and Repository (NSRR). Please follow the link provided to view and download the latest Operational Context Documents - https://nsrr.faa.gov/library#anchor

   4.2. **SWIFT Operational Issues Focus Group Update: - Xavier Pratt (LST)**

      4.2.1. Mr. Pratt provided attendees with a recap of the currently prioritized issues for the focus group, highlighting those that are active. Mr. Pratt concluded his portion of the presentation by providing the focus group contact information and soliciting attendees to join the group if they had interest.

   4.3. **SWIFT Development and Analytics Focus Group (DAFG): - Ray Mitchell (LST) & Mike Jagmin (United Airlines)**

      4.3.1. Mr. Mitchell provided a recap on the background and purpose of the focus group, along with an update on the TBFM Delay & TBFM Working Group. Mr. Jagmin quickly highlighted the most recent DAFG meetings, re-capping the informative session on the SWIFT Developers

Workshop and the great work being done to support user knowledge of SWIM services. The presenters concluded their presentations by inviting interested attendees to join the focus group.

5. **NAS Programs: Traffic Flow Management System (TFMS) Program Update: - Wayne Hubbard (FAA)**

   5.1. Mr. Hubbard provided status on the TFMS program, sharing the latest on release packages for the service. Release 13 (TFMData v2.0.5) is planned to be retired March 2023; additional releases are targeted to begin at the end of May starting with release 14 patch 2. Mr. Hubbard provided a detailed overview and update on Reroute Impact Assessment (RRIA) and several other capabilities to conclude his presentation.

   5.2. **Collaborative Decision Making (CDM) Transition to SWIM: - Chris Burdick (FAA) & Brandon Wang (Eyrie Networks)**

      5.2.1. Mr. Burdick opened his presentation by sharing information on the retirement of the legacy Flight Data Front End (FDFE) / Airline Operation Center Network (AOCNet) interface (legacy TFMS direct service) targeted for 2023. Mr. Burdick provided attendees with a service overview of both TFMdata and Terminal Flight Data Manager (TFDM). It was noted that other TFMS direct applications such as Collaborative Trajectory Options Program (CTOP) (Traffic Situation Display - Commercial / TSD-C), Flight Schedule Monitor (FSM) and TSD-C are not yet planned for deprecation. Mr. Burdick and Mr. Wang concluded presentations with sharing the benefits for users when transitioning to TFMData Request/Reply.

6. **Special Topic: NY Area Airport Study Deep Dive Aviation Operations Roundtable**

   6.1. Mr. Almeida level set attendees and provided a quick recap of the case study and introduced the Panel of aviation Subject Matter Experts (SMEs). The panelist and Mr. Almeida provided insight into the problem space. The roundtable concluded with closing thoughts from each panelist on the positive impact the case study could have on NAS operations, and the aviation community at large.

7. **SWIM Information Services: Deviations off Trajectories:**

   7.1. **Information Services Roadmap: Applying the Roadmap to NY Study: - Xavier Pratt (LST)**

      7.1.1. Mr. Pratt walked the attendees through how each SWIM service is being applied to the case study to leverage the information which will build out the prediction model. Mr. Pratt highlighted the Information Service Roadmap and the direct link to services that will be relied upon for the case study (Flight and Flow from TFMData). In conclusion Mr. Pratt shared contact information for the SWIFT team for attendees who may have interest in the case study or SWIM data in general.

   7.2. **NY Study Information Services Deep Dive: Traffic Flow Management System (TFMS), SWIM Flight Data Publication Service (SFDPS), & SWIM Terminal Data Distribution Services (STDDS):**

      7.2.1. Presenters from the three programs TFMS, SFDPS, and STDDS collectively informed the attendees of new capabilities and refinements to each system. The presenters also focused on the specific data elements that have been identified as a key data source for the Case study. In

conclusion the group shared the latest status on the prediction model for the case study, showcased a quick demo, and provided attendees with considerations learned from the data collection and gathering exercise of the case study.

    7.3. **NASA's Deep Dive into Digital Information Platform (DIP): - Jeremy Coupe (NASA)**

        7.3.1. Dr. Coupe gave attendees a quick high-level overview of the DIP, an enlightening discussion of converting Trajectory Option Set (TOS) for DIP, and the future for DIP. Dr. Coupe also shared information on the Collaborative Digital Departure Reroute (CDDR) highlighting their field demo in North Texas using machine learning and new features that enable flight operators to request reroutes for load balancing considerations. Dr. Coupe concluded his presentation with a deep dive into the machine learning analytics/results of a scalable DIP solution analyzed outside of North Texas using several arrival runway predictions models.

8. Special Topic: AES Update and the Developers Workshop:

    8.1. **Developers Workshop & Series: - Kevin Long & Jeff Stein (MITRE)**

        8.1.1. Mr. Long and Mr. Stein provided attendees with background, objectives, and insight into the Workshop and series. Mr. Stein elaborated on the technical aspects of the workshop and series pointing out key aspects of the exercise and the expectations for those interested in participating. The pair concluded the presentation with schedule information for the webinar series and the day of workshop events.

    8.2. **SWIFT PORTAL: - Lucas Curns (FAA) & Mark Parra (Noblis)**

        8.2.1. Mr. Curns provided attendees with a quick recap and status on the SWIFT Portal. Mr. Curns informed the attendees of new features/capabilities coming to the portal to include maintenance status expected by the summer of 2022. Mr. Curns also informed attendees of the new subscription disconnect policy slated for summer of 2022. In conclusion of the SWIFT Portal presentation, Mr. Parra gave attendees a quick demonstration of the Community Forum and showcased how user friendly it is to start a new discussion thread and collaborate.

9. Closing Remarks:

    9.1. Closing remarks were provided by Mr. Gustin, Ms. Calabrese, and Mr. Almeida. In conclusion of SWIFT 18, Ms. Calabrese thanked attendees for their support and re-affirmed the details for the SWIFT 19 hybrid event, informing attendees the SWIFT #19 event is currently scheduled for August 31, 2022, along with sharing information on the upcoming SWIFT Developers Workshop (August 29-30). More details on the SWIFT Developers Workshop can be found via links below:

        9.1.1. https://www.faa.gov/air_traffic/technology/swim/swift/

        9.1.2. https://community.swim.faa.gov/

10. Meeting Adjourned:

Appendix A : SWIM Industry-FAA Team (SWIFT) Meeting #18 Attendees – May 25, 2022

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