Minutes of the Federal Aviation Administration (FAA) System Wide Information Management (SWIM) Industry Collaboration Workshop and SWIM Industry-FAA Team (SWIFT) Meeting #17

March 03, 2022

1. **Virtual Session & Registration:**

   1.1. The SWIFT 17 meeting was held online, via Zoom Meeting conferencing system on March 03, 2022, 12:30pm ET.

2. *Introduction/Welcome:*

   2.1. Welcoming Remarks – Mark DeNicuolo, Rebecca Guy, Joshua Gustin, and Rob Goldman.

   2.2. Mark 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. Mark concluded his introductions by introducing Ms. Rebecca Guy.

   2.3. Rebecca Guy welcomed the attendees and described her role in the FAA as the Deputy Vice President of the Program Management Office (PMO). Rebecca shared her passion for data and excitement that she finally had an opportunity to join a SWIFT session and see first-hand the magnificent work the SWIFT forum is doing.

   2.4. Joshua Gustin welcomed the SWIFT attendees and continued to express his gratitude for folks continuing to show up for SWIFT and providing value-add inputs to topics of discussion.

   2.5. Rob Goldman expressed his excitement to kick off the series of SWIFT events for 2022 and his continued support of the SWIFT initiative.

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

   3.1. David continued to thank all attendees for joining the virtual SWIFT 17 and highlighted the attendee registration count of over four hundred people. David provided quick data points on attendees, 71 of whom were new to SWIFT.

4. **Special Topics: The Information-centric National Airspace System (NAS): Steve Bradford & Diana Liang (FAA)**

   4.1. Steve provided status and insight to the attendees on *What is Coming Next* for the Information-centric NAS. Steve walked attendees through the background of the Information-centric push, the path that was chosen, and several key capabilities and enhancements that are aimed at improving aircraft management. Steve concluded his presentation by discussing what a fully integrated information regime would mean for the NAS and its airspace users.

   4.2. Diana provided status and insight to the attendees on connected aircraft and electronic flight bags. Diana highlighted the background purpose for the initiative to level set the conversation. Diana shared with attendees the evolution of commercial Telecom Infrastructure, Four Dimensional Trajectories (4DT) Live Flight Demo status/results and concluded with informing the attendees that this year's winner of the Innovation Award was in fact the 4DT Live Flight Demonstration exemplifying collaboration at its best with FAA, Boeing, and Embry-Riddle to name a few.

5. **NAS Programs: Extensible Traffic Management (UTM, UAM & ETM) – Biruk Abraham (FAA)**

5.1. Biruk provided attendees with background information for Extensible Traffic Management (xTM) and highlighted key features of xTM. He also walked attendees through the captured assumptions and common principles for a fully integrated information environment tying back into the Info-centric NAS. Biruk concluded his presentation with next steps for xTM which include continued collaboration with industry and testing.

6. **Western Regional Partnership (WRP) Airspace resiliency for Department of Defense (DoD), and UAS(Unmanned Aircraft Systems (UAS) integration & policy: Rob Lowe (FAA) SW Regional Administrator, Lorne Cass (Aero NowGen Solutions) & Amy Duffy (WRP)**

   6.1. Amy Duffy, Rob Lowe, and Lorne Cass in panel style, presented background information on the WRP, the purpose/goal of the program, and current status. The trio of panelists shared with attendees context and insight into the Resiliency of Airspace in the WRP Region Deep-Dive. The WRP team shared the purpose of the activities and key stakeholders. The WRP team concluded their presentation by sharing the value-add of WRP and encouraging attendees to learn more about WRP.

7. **NAS Programs Commercial Space & Space Data Integrator : Crystal Toney and Duane Freer (FAA)**

   7.1. Crystal provided the attendees with insight into both previous space related accomplishments while painting a picture for the future of aviation and space. Crystal pointed out that in today's world we now have both astronauts and private citizens going into space which is exciting while also requiring more collaboration and planning as it comes to the use of airspace. Duane focused on providing the attendees with information and insight into how Space Data Integration will be executed, along with sharing the data exchange model. Ms. Toney and Mr. Freer concluded the presentation with sharing their perspective on the growth of FAA's space operations efforts and that fact that those efforts will continue to generate innovative solutions to support industry advancements and ensure the safety of our national aerospace.

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

   8.1. Ray previewed current Operational Context Document status and highlighted the new cadence for the focus group (modified from monthly sessions to more ad hoc sessions centered around SWIFT events). Ray concluded his presentation by providing contact information for those who may be interested in joining the focus group along with providing 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

   8.2. **SWIFT Operational Issues Focus Group Update: Xavier Pratt – (LS Technologies)**

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

   8.3. **SWIFT Development and Analytics Focus Group (DAFG): Ray Mitchell (LS Technologies) & Mike Jagmin – (United Airlines)**

8.3.1. Ray provided a recap on the background and purpose of the focus group, along with an update on the TBFM Delay & TBFM Working Group. Mike quickly highlighted the most recent DAFG meeting, and shared gratitude for NASA Digital Information Platform (DIP) team who presented an exciting and informative deep dive into the DIP and services/methodology leveraged to create the machine learning models. Mike and Ray concluded the presentation by inviting attendees to join the focus group if they had interest.

8.4. **NASA's Digital Information Platform (DIP): Mirna Johnson and Jeremy Coupe (NASA)**

8.4.1. Mirna provided background information on the DIP, current status, and began the conversation at a high level of the new and exciting capabilities of DIP. Jeremy briefed attendees on the Sustainable Aviation (SA) Engineering Plan, sharing what the plan is, current methodology as it pertains to machine learning. Mirna and Jeremy concluded the presentation by sharing goals of the (SA) and offering to continue the conversation with the FAA and SWIFT as applicable.

8.5. **Widget Case Study: Fix Conformance Analysis Use Case using SWIM Data – Greg Feldman (Cavan)**

8.5.1. Greg provided background information on the Fix Conformance Analysis case study, highlighted the impacts to aviation and operations, and lastly the goal of the study. Greg and his team also provided a demonstration of the widget highlighting the capability and reporting value add aspects. Greg and team concluded their presentation by summarizing the case study and providing contact information.

9. **SWIFT Topics: Information Services Roadmap: Applying the Roadmap – Xavier Pratt (LS Technologies)**

9.1. Xavier shared the latest updates to several of the SWIM producer programs, spotlighting deployment status and milestone dates. Moreover, he provided a recap of the New York case study progress, which seeks to demonstrate where SWIM data can be applied to mitigate information gaps of airspace users operating in New York Center. Xavier also highlighted how to apply the information service road map by showing the tie into services and specific applications of the NAS, which service and data elements should be used and how. Xavier concluded the presentation by informing the audience that the roadmap is a living document, as updates from the producer program are received the roadmap will adjust accordingly.

10. **SWIFT Portal – Mark Parra & Lucas Curns (Noblis)**

10.1. Mark provided attendees with a focused presentation on the Community Forum, the expected user experience, applicable rules, and guidelines. He also walked attendees through a detailed demonstration of how to access the community forum, entering a question/comment, and finally the loop back process in which members from producer programs can view questions and provide answers/responses all within the community forum. Mark concluded the presentation by sharing contact information and soliciting folks to get more involved and active on the forum.

11. **Closing Remarks**

11.1. Closing remarks were provided by Joshua, Stefanie Calabrese, and David. The trio collectively highlighted topics from the event that generated interactive conversation between attendees and presenters. In conclusion of SWIFT 17, David informed attendees of the next SWIFT event

(SWIFT 18) which will be scheduled for May 25, 2022, along with thanking all the attendees and presenters for their participation in SWIFT 17.

12. Meeting Adjourned

Appendix A : SWIM Industry-FAA Team (SWIFT) Meeting #17 Attendees – March 03, 2022

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

SWIFT 17 Meeting Minutes March 03, 2022