

Questions/Answers 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

Zoom Meeting Conferencing System Virtual Event.

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

1.1. *Is Re Route Impact Assessment (RRIA) tied into Terminal Flight Data Manager (TFDM) program?*

1.1.1.No, it is an internal TFMS service.

1.2. *Is Oceanic (non-RADAR) data considered and able to be ingested?*

1.2.1. Yes, Advanced Technologies & Oceanic Procedures (ATOP) oceanic system does send updates to TFMS.

2. Special Topic: TFMS Flight Data Transition to SWIM: - Chris Burdick (FAA) & Brandon Wang (Eyrie Networks)

2.1. *Will all ADL data be available? I believe we had identified that some of the capacity numbers were not available via Traffic Flow Manager Data (TFMDdata). There are capacity numbers in TFMDdata, just not the same?*

2.1.1. What is available is raw data. We can show the fields needed to recreate the ADL; it may not be the exact temporal info (4dT). So, you can recreate it, it is hard to come with the exact same demand prediction we have in our ADL, we think some future APIs would be good to produce demand prediction.

3. SWIM Information Services: Deviations off Trajectories:

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

3.1.1. *Have some questions on lower-level coding/development best to answer offline?*

3.1.1.1. SWIFT team to reach out offline.

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

3.1.2.1. *Have you analyzed these results focusing only on dates/times that experienced significant delays?*

3.1.2.1.1. Yes, during weather (Wx) events.

3.1.2.2. *Is it modeled over time?*

3.1.2.2.1. The model parameters do not look too far into the future, the critical point of time is around pushback.

3.1.2.3. *Could Machine Learning (ML) be applied to a specific ramp?*

3.1.2.3.1. Yes, we have modeled ramp areas across different airports. the key component is high quality data (including accurate Actual Off-Block Time (AOBT) and spot crossing time).

3.2. SWIFT Portal - Lucas Curns (FAA) & Mark Parra (Noblis)

3.2.1. *Any chance notifications could be provided via webhook or an API for querying status/maintenance information?*

3.2.2. As of now it is not built into the functionality.