International Civil Aviation Organization

The Ninth Meeting of System Wide Information Management Task Force (SWIM TF/9)

Bangkok, Thailand, 14 – 17 May 2024

Agenda Item 4: ~~Updates on SWIM Task Force outstanding activities~~

PROGRESS UPDATE BY S3TIG FOR THE JOINT EVENT OF SWIM DEMONSTRATION OVER CRV AND SURVEILLANCE SHARING IN SWIM TRIAL

(Presented by Hong Kong China)

SUMMARY

This paper presents the progress update of the joint event of SWIM Demonstration over CRV and Surveillance Data Sharing in SWIM Trial.

1. INTRODUCTION

1.1 With the consolidated effort made by System Wide Information Management Task Force (SWIM TF) and Surveillance Study Group (SURSG), the SWIM Demonstration over CRV and surveillance data sharing in SWIM trial ("the Joint Event') is to be held in Hong Kong China from 28 – 29 May 2024, with the 1st day reserved for system setup and rehearsal and the 2nd day the actual event day. For additional information, SURSG/4 is to be held at the same venue in Hong Kong China from 30 – 31 May (i.e. after the conclusion of the Joint Event).

1.2 The Joint Event will mainly consist of scenario-based demonstrations including ATFM, surveillance data sharing, FF-ICE and MET. Some potential SWIM services for Aviation Support Service Providers will also be demonstrated. A session of panel discussion is also planned while guests from the industry are being invited.

1.3 Various States/Administrations have registered participation in the Joint Event including 7 States/Administrations (Hong Kong China, India, Japan, Malaysia, Republic of Korea, Singapore and Thailand) as Data Contributors and/or Consumers and 10 States/Administrations (Australia, China, Fiji, Indonesia, Laos PDR, New Zealand, Pakistan, Philippines, Sri Lanka and Vietnam) as Observers.

1.4 Surveillance Sharing in the SWIM Trial Implementation Group (S3TIG) monthly meetings had been held with the participating States/Administrations since 26 Jun 2023 to discuss the technical issues and keep track of the progress of the preparation works for the Joint Event. The latest (i.e. the 11th) S3TIG monthly meeting was held on 22 Apr 2024.

2.   DISCUSSION

Progress update for the Joint Event

2.1   The following tasks were completed.

       a)   Design on the details of the scenario-based demonstrations.
       b)   Design on the JSON structure and message header for surveillance data sharing in the event.
       c)   Network provision of Pseudo CRV and Console Connect for participating States/Administrations.
       d)   Development of the SWIM services to support the scenario-based demonstrations.
       e)   Development of the SWIM services on surveillance data sharing.
       f)   Preparation of test scripts, presentations and rundown for the demonstration day.

2.2   The ongoing tasks are summarized as below.

       a)   Test on SWIM message exchange and conduct scenario dry run
       b)   Fine tune test scripts, presentations and rundown for the demonstration day.

2.3   The items to be followed up after the Joint Event are summarized as below.

       a)   Review the adopted message structure in the Joint Event and make necessary adjustment for improvement.

Post-Event Appreciation

2.4   After the completion of the Joint Event, the current setup will be accessible for a period of 1-month until end June 2024 for participants to appreciate the SWIM environment and system HMI.

3.   ACTION BY THE MEETING

3.1   The meeting is invited to:

       a)   note the information contained in this paper;

       b)   discuss any relevant matters as appropriate; and

       c)   participate in the Joint Event and the following SURSG/4 in Hong Kong China during the period of 28 – 31 May 2024

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