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*International Civil Aviation Organization*

**Third Meeting of the Surveillance Study Group (SURSG/3)**

(Hong Kong China, 22 – 24 March 2023)

Agenda Item 3: Progress update of tasks under the work plan

### **Review of Work Plan for Surveillance Study Group**

(Presented by Hong Kong China)

#### **SUMMARY**

This paper reviews with recommendations on the Work Plan of Surveillance Study Group, which was first presented at SURSG/1 as WP/05, in view of the progress and development following SURSG/1 held in April 2021.

## **1. INTRODUCTION**

1.1 At SURSG/1 held in April 2021, working paper WP/05 was presented by Hong Kong China, starting off with the establishment of SURSG and its Terms of Reference (ToR) and a draft Work Plan with deliverables to meet the objectives of the ToR. With progress and development since SURSG/1, at SURSG/2, WP/03 on “*Mapping for Each Task with Terms of Reference of SURSG*” was presented, which was in essence a progress report of the deliverables. A copy of WP/03 of SURSG/2 is attached to end of this paper for reference and to facilitate the discussion.

## **2. DISCUSSION**

### **The Case for a Review of Work Plan**

2.1 With the issuance of Surveillance Study Report in February 2022, which was discussed at SURSG/2, the majority of the deliverables were completed while the remaining outstanding tasks were deliberated during the presentation of WP/03 where some adjustments to their timing were made considering the nature of the tasks and the availability of information, which is time or development-dependent, and the evolving nature of the work, not to mention the establishment of S3TIG.

2.2 The list of outstanding tasks (highlighted in yellow) in the Work Plan, all of which were from Recommendation Stage (the last stage of work) is tabled below:

| Group                | Task | Description   | Start                           | End  | Task Owner(s)  |
|----------------------|------|---|---------------------------------|--|--|
| Recommendation Stage | 3    | Report on the possible implementation of surveillance data sharing in SWIM  | SURSG/2                         | SURICG/7   | TBD  |
|                      | 3-1  | Consolidation of all the outcomes of Task 2 into a report according to the contents defined in TOR for submission to SURICG | SURSG/2                         | SURICG/7   | Hong Kong<br>China, IATA,<br>Singapore,<br>Thailand, Viet<br>Nam |
|                      | 3-2  | Preparation of draft multi-lateral agreement on surveillance data sharing and data consumption                              | SURSG/2                         | <del>SURICG/7</del><br>(to be reviewed at SURSG/3) | TBD  |
|                      | 4    | Guidance materials for the sharing and access of surveillance data  | SURICG/7                        | SURICG/9   | TBD  |
|                      | 4-1  | Preparation of the framework and 1 <sup>st</sup> draft of guidance material   | <del>SURICG/7</del><br>SURICG/8 | <del>SURSG/3</del><br>SURSG/4                      | TBD  |
|                      | 4-2  | Further development of the working draft of guidance material for endorsement by SURICG and CNS SG                          | SURSG/3                         | SURICG/9   | TBD  |

2.3 “A Joint Event for Surveillance Data Sharing in SWIM Trial and SWIM Over CRV Demonstration” (Demo) discussed in WP07 at this meeting is the focal task of S3TIG. Operational and technical details as well as well functions/features to be showcased at the Demo are to be worked out. In view of the planned Demo and on review of present Work Plan, the following changes to the Work Plan are proposed:

Items 3-2, 4, 4-1 & 4.2, “Preparation of draft multi-lateral agreement on surveillance data sharing and data consumption” & “Guidance materials for the sharing and access of surveillance data”

Expectedly, there has to be a multitude of consideration factors before a party enters into a bilateral or multilateral agreement, where the contents would differ significantly with the shared data, mode of sharing, role of the participant, service performance level, etc. Additionally, there would be regulatory, governmental/organizational considerations from each participant’s perspective, which may sometime conflict with those of others. A one-size-fits-all draft agreement might not be practicable. Furthermore, adherence to a draft agreement, even if endorsed and endorsable, should be beyond the mandate of SURSG. Therefore, instead of a “draft multi-lateral agreement”,

members may consider a paper of recommendations on the various technical and operational elements of sharing surveillance factored into such an agreement, where feasible.

By the title of Item 4, i.e. “*Guidance materials for the sharing and access of surveillance data*”, it appears fitting the proposed revised Item 3-2 could be absorbed into Item 4 (and sub-items).

On the timing of Item 4, it is preferable to have a post-Demo review with more practical elements filled and any lessons learned and recommendations to be included thereof in the wake of the Demo. It is therefore suggested the timing of delivery for Item 4 and sub-items be finetuned to take into the outcome of the Demo. With such, revisions are proposed to the Work Plan as in red text in below table:

| Group                | Task           | Description   | Start  | End   | Task Owner(s)  |
|----------------------|----------------|---|--|---|--|
| Recommendation Stage | 3              | Report on the possible implementation of surveillance data sharing in SWIM  | SURSG/2  | SURICG/7  | TBD  |
|                      | 3-1            | Consolidation of all the outcomes of Task 2 into a report according to the contents defined in TOR for submission to SURICG             | SURSG/2  | SURICG/7  | Hong Kong<br>China, IATA,<br>Singapore,<br>Thailand, Viet<br>Nam |
|                      | <del>3-2</del> | <del>Preparation of draft multi-lateral agreement on surveillance data sharing and data consumption</del><br><br>[absorbed into Task 4] | <del>SURSG/2</del>   | <del>SURICG/7</del><br><br>(to be reviewed at SURSG/3)          | <del>TBD</del>   |
|                      | 4              | Guidance materials for the sharing and access of surveillance data  | <del>SURICG/7</del><br><br>(after Demo)                            | <del>SURICG/9</del><br><del>SURICG/10</del>                     | TBD  |
|                      | 4-1            | Preparation of the framework and 1 <sup>st</sup> draft of guidance material   | <del>SURICG/7</del><br><br><del>SURICG/8</del><br><br>(after Demo) | <del>SURSG/3</del><br><br>SURSG/4<br>or<br>SURSG/5 <sup>1</sup> | TBD  |
|                      | 4-2            | Further development of the working draft of guidance material for endorsement by SURICG and CNS SG                                      | <del>SURSG/3</del><br><br>(after Demo)                             | <del>SURICG/9</del><br><br>SURICG/10                            | TBD  |

<sup>1</sup> Subject to timing of Demo.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) provide support for the proposal;
- c) participate in the Trial; and
- d) discuss any relevant matter as appropriate

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ICAO

*International Civil Aviation Organization***Second Meeting of the Surveillance Study Group  
(SURSG/2)**

(Video Teleconference, 15– 17 March 2022)

**Agenda Item 6:** Review of SURSG ToR and work plan/programme**ACTION ITEM 1-1****MAPPING FOR EACH TASK WITH TERMS OF REFERENCE OF SURSG**

(Presented by Hong Kong, China)

**SUMMARY**

This paper presents the updates on the action item 1-1 resulted from first meeting of Surveillance study group.

**1. INTRODUCTION**

1.1 The First Meeting of the Surveillance Study Group (**SURSG/1**) was held from 20 to 22 April 2021 via video teleconference. The meeting was attended by 118 participants from 15 States/Administrations, 4 International Organizations, and two industry partners (CANSO, IATA, ICCAIA, IFATCA, Frequentis, and PCCW Global). The meeting report, working papers, information papers, and other resources can be accessed by the following link: <https://www.icao.int/APAC/Meetings/Pages/2021-SURSG-1.aspx>.

1.2 This paper presents outcomes of Action Item 1-1- *Mapping for each task with terms of reference of SURSG*.

**2. DISCUSSION**

2.1 The first meeting of the Surveillance study group discussed the Work plan of the Surveillance Study Group presented by Hong Kong, China by WP/05.

2.2 Draft work plan provided in Attachment to WP/05 proposed four main tasks based on the draft ToR of the Study Group with six sub-tasks under Task-2 and two sub-tasks under Task-3 and Task-4. The meeting advised that Hong Kong China provide the mapping for each task with terms of reference of SURSG for the detailed technical description of each task, which resulted in ACTION-ITEM 1-1.

2.3 The mapping for each task with terms of reference of SURSG is provided in following **Table 1**. With the aforementioned, it is proposed to close the action item 1-1.

**Table 1**

| <b>Group</b>                   | <b>Task</b> | <b>Description</b>  | <b>ToR Para.</b>            | <b>Start</b> | <b>End</b>                 | <b>Task Owner(s)</b>  |
|--------------------------------|-------------|---|-----------------------------|--------------|----------------------------|---|
| <b>Feasibility Study Stage</b> | 1           | Preparation of Progress Report on the SURSG deliverables  | -                           | -            | Before every SURSG Meeting | Study Group Lead(s)   |
|                                | 2           | Study, identification and recommendation of possible and practical models for surveillance data sharing in SWIM   | 2                           | SURSG/1      | SURSG/2                    | Hong Kong China (TL)  |
|                                | 2-1         | Preparation of Concept of Use/Operation   | 2(a)<br>3(c)                | SURSG/1      | SURSG/2                    | Singapore/TL, Hong Kong China, Thailand, Viet Nam                             |
|                                | 2-2         | Study, identify and recommend on Implementation Model including the consideration of system design and collaboration model on sharing of surveillance data. | 2(b), (d)<br>3(a)           | SURSG/1      | SURSG/2                    | Hong Kong China, Republic of Korea, Singapore, Thailand, Viet Nam             |
|                                | 2-3         | Study, identify and recommend on an Infrastructure Model based on SWIM and CRV infrastructure   | 2(f)<br>3(b)                | SURSG/1      | SURSG/2                    | China, Hong Kong China, Singapore, Thailand, Viet Nam, PCCW Global as advisor |
|                                | 2-4         | Study, identify and recommend on a Business Model including commitments by data sharing participants as well as incurred resource and cost                  | 2(b), (c), (d)<br>3(d), (e) | SURSG/1      | SURSG/2                    | China, Hong Kong China, Singapore, Thailand, Viet Nam                         |
|                                | 2-5         | Study, identification and recommendation of Participation Model in consideration of   | 2(c), (d)<br>3(e)           | SURSG/1      | SURSG/2                    | Hong Kong China, Singapore, Thailand,   |

|                      |     |   |              |   |  |   |
|----------------------|-----|---|--------------|---|--|---|
|                      |     | commitments by data consumers and multi-lateral agreement on surveillance data sharing  |              |   |  | China, Viet Nam, IATA                                       |
|                      | 2-6 | Preparation of implementation roadmap and time frames with consideration of approach, types of surveillance data and information exchange model | 2(e)<br>3(a) | SURSG/1   | SURSG/2  | China, Hong Kong<br>China, Singapore,<br>Thailand, Viet Nam |
| Recommendation Stage | 3   | Report on the possible implementation of surveillance data sharing in SWIM  | -            | SURSG/2   | SURICG/7   | TBD   |
|                      | 3-1 | Consolidation of all the outcomes of Task 2 into a report according to the contents defined in TOR for submission to SURICG                     | -            | SURSG/2   | SURICG/7   | Hong Kong China,<br>IATA, Singapore,<br>Thailand, Viet Nam  |
|                      | 3-2 | Preparation of draft multi-lateral agreement on surveillance data sharing and data consumption  | -            | SURSG/2   | <del>SURICG/7</del><br><a href="#">(to be reviewed at SURSG/3)</a> | TBD   |
|                      | 4   | Guidance materials for the sharing and access of surveillance data  | -            | SURICG/7  | SURICG/9   | TBD   |
|                      | 4-1 | Preparation of the framework and 1 <sup>st</sup> draft of guidance material   | -            | <del>SURICG/7</del><br><a href="#">SURICG/8</a> | <del>SURSG/3</del><br><a href="#">SURSG/4</a>                      | TBD   |
|                      | 4-2 | Further development of the working draft of guidance material for endorsement by SURICG and CNS SG  | -            | SURSG/3   | SURICG/9   | TBD   |

2.4 Given the evolving nature of SWIM and the various factors such as participation and commitment discussed in the SURSG Study Report, it is not considered practical to start preparing draft multi-lateral agreement in this initial stage in regard to Task 3-2 in Table 1. For similar consideration, time frame for Task 4-1 needs to be reviewed. It is therefore proposed that the time frame Task 3-2 be revised to “to be reviewed at SURSG/3” while Task 4-1 is to be revised from “SURICG7 – SURSG/3” to “SURICG8 – SURSG/4”.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) review the mapping for each task with terms of reference of SURSG provided in **Table 1**;
- c) discuss and decide on proposed changes to time frames of Tasks 3-3 and 4-1; and
- d) discuss any relevant matter as appropriate.

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