



**Agenda Item 4: Review of Project H4 – OPMET Exchange**

**SWIM MET Plan and Roadmap**

(Presented by the Secretariat)

<b>SUMMARY</b>	
This paper presents the SWIM MET Roadmap and Plan.	
<b>References:</b>	
<ul style="list-style-type: none"><li>• Doc 9750 – Global Air Navigation Plan, fifth edition</li><li>• Report of the Second meeting on MET Projects, Lima, 18-22 September 2017</li><li>• Report of the Fourth meeting of the ICAO MET Panel</li></ul>	
<b>ICAO strategic objectives:</b>	<i>A - Safety</i> <i>B – Air navigation capacity and efficiency</i> <i>E – Environmental protection</i>

**1. Introduction**

- 1.1 The ICAO Global Air Navigation Plan (GANP) introduced the ASBU methodology.
- 1.2 The MP/2 meeting analysed the need to prepare the exchange of OPMET messages for a SWIM environment.
- 1.3 The Fourth meeting of the ICAO MET Panel prepared a MET Roadmap and Plan for the MET part of SWIM.

**2. Discussion**

- 2.1 The GANP, since its fourth edition, introduced the ASBU methodology, which is divided into four performance improvement areas and 4 blocks. Initially, the SWIM module was part of Area 2 (globally interoperable data and systems) and Block 1 (2019-2025).
- 2.2 In view of the constant revisions of the GANP, the status of implementation worldwide, and the situation of enablers, it was considered necessary to move SWIM to Block 2.
- 2.3 The MP/2 meeting noted that, in the current technological environment and considering aviation growth, information management was critical for safety and that attention should be paid to all aspects related to data quality and security, as well as to information sources. The meeting recalled that, in

the Global Air Navigation Plan, secure information management was essential for improving the aviation system as a whole.

2.4 Upon analysing SWIM implementation, the MP/2 meeting considered the need for interoperability. It also recalled that the ATM community would largely rely on the provision of timely, relevant, accurate, certified and quality information to support decision-making based on such information. System-wide exchange of information would allow the ATM community to conduct its activities and operations in a safe and efficient manner.

2.5 Accordingly, the MP/2 meeting had urged States to design procedures to allow aeronautical meteorological service providers to develop plans for the implementation of meteorological message exchange models, and implementation of XML/GML messages for the introduction of meteorological messages into the SWIM environment.

2.6 The fourth meeting of the ICAO MET Panel (METP/4) analysed MET development for the SWIM environment. The WG-MIE presented the MET-SWIM plan and roadmap. The document contains the MET-SWIM concepts, technologies and relationships with other SWIM components, and the roadmap for the implementation of meteorology (MET) in SWIM. In this regard, the MET Panel meeting noted that the SWIM concept and the Manual on the digital exchange of aeronautical meteorological information (Doc 10003) provided guidance for the implementation of aeronautical meteorological data exchange models and XML/GML. The MET-SWIM Plan and the MET-SWIM Roadmap supplement this manual, providing more details about the exchange of aeronautical meteorological information in the SWIM environment. The purpose of the MET-SWIM Plan and the MET-SWIM Roadmap is to assist the ICAO planning and implementation regional groups (PIRGs) and the States in SWIM implementation.

2.7 The METP/4 meeting noted that, in the last draft of Doc 10039, architectural options had been eliminated, and considered that the same should be done in the MET-SWIM Plan. The MET-SWIM Plan and the MET-SWIM Roadmap are “living” documents and require consultation with the IMP and the Communications Panel (CP). Consequently, the METP/4 meeting issued the following recommendation:

Recommendation 5/5: MET-SWIM Plan and Roadmap

That the Panel:

- a) Endorse the version of the MET-SWIM Plan and of the MET-SWIM Roadmap shown in Appendix C to the report of the METP/4 meeting;
- b) Invite the Secretariat to upload the MET-SWIM Plan and the MET-SWIM Roadmap to the OACI METP website (both public and secure) and to distribute it to the Planning and Implementation Regional Groups (PIRGs); and
- c) Seek to further align the MET-SWIM Plan and the MET-SWIM Roadmap with the concepts in Doc 10039, Manual on system-wide information management.

2.8 The MET-SWIM Plan and Roadmap are shown in **Appendix A** to this working paper (available only in English). States should review them and analyse the implementation procedures with the areas involved.

### 3. **Suggested action**

3.1. The Meeting is invited to:

- a) take note of the information provided in this working paper;
- b) review the information provided in Appendix A; and
- c) consider actions related to item 2.8.