INTERNATIONAL CIVIL AVIATION ORGANIZATION

Second Meeting of the Africa - Indian Ocean Aviation System Planning and Implementation Group (AASPG/2)

Livingstone, Zambia, 2 – 6 November 2026

Agenda Item 4: Implementation of safety and air navigation goals, targets and indicators, including priorities set in the Regional Aviation Safety and Air Navigation Plans

AFI SWIM and FF-ICE implementation Updates

(Presented by the Secretariat)

SUMMARY	
This working paper provides an update on activities undertaken in support of the implementation of System Wide Information Management (SWIM) and Flight and Flow Information for a Collaborative Environment (FF-ICE) in the AFI region. It presents the outcomes of the Future Skies of Africa SWIM and FF-ICE ICAO – CANSO Workshop held in Entebbe, Uganda; the development of the AFI SWIM and FF-ICE implementation roadmap; the establishment of the AFI SWIM Project under AASPG; and the next steps required to support regional readiness and implementation. Action by the Meeting in **paragraph 3**	
REFERENCE(S)	- AASPG/1 Report - ICAO GANP (Doc 9750) - ICAO Doc 10039 – SWIM Concept - ICAO Doc 9965 – FF-ICE Manual
Strategic Goals	- A - Every Flight is Safe and Secure - C - Aviation Delivers Seamless, Accessible, and Reliable Mobility for All

1 INTRODUCTION

1.1 APIRG/26 through Decision 26/17, endorsed the establishment of the FF-ICE Project Management Team (FF-ICE PMT) to assist the AFI region in preparing for the transition to FF-ICE in 2034. The FF-ICE PMT has since coordinated the development of key documents for FF-ICE implementation and supported the development of the Terms of Reference for the AFI SWIM project which was submitted to AASPG for endorsement.

1.2 The First Meeting of the Africa-Indian Ocean Aviation System Planning and Implementation Group (AASPG/1), held in Libreville, Gabon, from 3 to 7 November 2025, endorsed the AFI SWIM Project through Decision 1/20 and approved the associated project documentation as the regional framework for supporting the implementation of System Wide Information Management (SWIM) in the AFI region.

1.3 Subsequently, ICAO and CANSO organized a Workshop on the Future Skies of Africa - SWIM and FF-ICE Implementation, in Entebbe, Uganda, from 2 to 4 December 2025. The workshop contributed to the development of a preliminary AFI SWIM and FF-ICE implementation roadmap and identified priority actions required to support regional implementation.

1.4 This paper provides an update on progress achieved and the next steps for the implementation of the AFI SWIM and FF-ICE roadmap.

2 DISCUSSION

2.1 AFI SWIM and FF-ICE roadmap

2.1.1 The preliminary AFI SWIM and FF-ICE roadmap proposes a phased implementation approach aimed at supporting the transition towards digital information exchange and collaborative information management.

2.1.2 The initial phase focuses on:

- defining SWIM and FF-ICE functional requirements;
- assessing regional readiness and implementation gaps;
- developing governance arrangements and implementation frameworks;
- building awareness and capacity; and
- developing the AFI SWIM and FF-ICE Concept of Operations (CONOPS).

2.1.3 Subsequent phases focus on:

- implementation planning and transition activities;
- deployment of SWIM-enabled information exchange services;
- implementation of FF-ICE services; and
- integration with ATM, AIM, CNS and MET modernization initiatives.

2.2 Current status

2.2.1 The FF-ICE Project Team has initiated the drafting of roadmap objectives and Concept of operations. As highlighted during AASPG/1, SWIM is a key enabler of FF-ICE and will need to be implemented in alignment with the preliminary AFI SWIM Roadmap activities identified during the SWIM/FF-ICE Workshop held in Entebbe.

2.2.2 Following the endorsement of the AFI SWIM Project by AASPG/1, the Secretariat initiated the establishment of the AFI SWIM Project Team.

2.2.3 The nomination and evaluation process has been completed and a multidisciplinary team of experts from ATM, AIM, CNS and MET domains has been identified to support implementation activities. The project has now transitioned from the establishment phase to implementation planning.

2.3 Immediate priorities

2.3.1 The immediate priorities of the AFI SWIM Project Team are as follows:

- development of the AFI SWIM Functional Requirements Framework;
- conduct of regional readiness and gap analysis;
- development of the AFI SWIM Roadmap;
- development of the AFI SWIM Concept of Operations;
- identification of governance, regulatory and training requirements; and
- coordination with related AFI initiatives.

2.3.2 The immediate priorities of the FF-ICE Project Management Team are as follows:
- finalization of FF-ICE Concept of Operations
- conduct of FF-ICE awareness and capacity-building activities; and
- coordination with the AFI SWIM Project Team on SWIM-enabled information exchange requirements.

2.4 Activities conducted/planned

Activities conducted
- FF-ICE awareness webinar conducted in February 2025.
- Joint ICAO-CANSO SWIM/FF-ICE workshop conducted in December 2025 in Entebbe, Uganda with preliminary SWIM implementation roadmap developed.

Planned activities for 2026 and 2027
- Planned Joint ICAO-IATA-CANSO SWIM/FF-ICE webinar series # 1 on 23 November 2026.
- Launch meeting of the combined AFI SWIM & FF-ICE Project management team in first quarter 2027.
- Planned Joint ICAO-IATA-CANSO SWIM/FF-ICE webinar series# 2 (in Q1 2027), series# 3 (in Q2 2027) and series# 4 (in Q3 2027).
- SWIM/FF-ICE readiness gap analysis campaign Q1-Q2 2027.
- Workshop on the validation of the AFI SWIM/FF-ICE governance framework, Transition Roadmap and Concept of Operations in Q2 2027.

2.5 **Monitoring and reporting arrangements**

2.5.1 Progress on the implementation of the AFI SWIM and FF-ICE roadmap will be monitored through the AAO and IIM Subgroups.

2.5.2 The Secretariat will provide an annual update to AASPG on the implementation status of the roadmap, including progress achieved, challenges encountered and planned activities.

2.5.3 Future reports submitted to the Air Navigation Commission (ANC) will include a dedicated section on implementation status, progress achieved and challenges related to SWIM and FF-ICE in the AFI region.

2.6 Challenges

2.6.1 Key challenges include :
- varying levels of digital maturity among States and organizations;
- limited practical SWIM implementation experience within the region;
- Financial resource limitations;
- Lack of competencies in SWIM; and
- the need for coordinated implementation across ATM, AIM, CNS and MET domains.

3 ACTION BY THE MEETING

3.1 The meeting is invited to:

a) note the progress achieved in the development of the AFI SWIM and FF-ICE implementation roadmap;
b) support the continuation of activities related to the AFI SWIM and FF-ICE Projects and the implementation of the roadmap, and provide guidance as appropriate; and
c) encourage States, ANSPs and partner organizations to support the mobilization of technical and financial resources required for the implementation of planned SWIM and FF-ICE activities in 2027.

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