

AFI System Wide Information Management (SWIM) Project

Management Team

Terms of Reference

Background

The implementation of System-Wide Information Management (SWIM) is a critical component of Global Air Navigation Plan (GANP) which enables seamless access, management and interchange of Air Traffic Management (ATM)-related information which includes flight, aeronautical and meteorological information.

SWIM will provide the necessary governance, infrastructure and framework for global interoperability enabling the definition and registry of information services to support the implementation of FF-ICE, AIM and future MET services whose projects are ongoing in the AFI Region.

As guided by the PANS-IM, the SWIM PMT is established and mandated by AASPG to address the AFI region needs for the effective and harmonized implementation of SWIM in alignment of ICAO SARPs.

Scope

The scope of the PMT is to establish a framework to support States and ATM stakeholders for the planning, development and the implementation of System-Wide Information Management (SWIM) initiatives in the AFI region including but not limited to:

- roles, responsibilities and accountabilities of the various system-wide information management stakeholders;
- governance structures;
- technical and operational requirements; and
- policies, processes and guidance in support of SWIM implementation.

Tasks

- a) Analyze and determine the functional requirements for implementation of SWIM within the AFI Region using the applicable ICAO Guidance Material.
- b) Review the SWIM provisions and study the various successful development of SWIM in other regions and States to draw lessons from them.
- c) Coordinate with other relevant AFI PMTs and stakeholders to identify their operational and technical needs related to the SWIM activities.
- d) Conduct comprehensive GAP analysis to assess the readiness of States in the AFI region to implement provisions of SWIM. Considerations for the GAP analysis will include regulatory amendments required by the State, review and amendments to operational processes and procedures, identification of ATM/CNS systems requirements and training requirements for all involved stakeholders.
- e) Develop a comprehensive implementation strategy and roadmap to facilitate the transition to a SWIM environment including SWIM technical infrastructure, SWIM governance and SWIM information services.

- f) Prepare the necessary guidance materials and training programs to support stakeholders in adopting SWIM within the AFI Region.
- g) Conduct regular evaluations to assess the effectiveness of SWIM implementation in the region and identify areas for improvement.
- h) Develop periodic report on the progress of SWIM implementation to be reviewed by the AAO/SG and IIM/SG and considered by the AASPG.
- i) Undertake any other tasks related to SWIM implementation that may arise in the future.

Working methods

The PMT shall convene meetings considering the schedule of their activities and will conduct its work through web conferences, teleconferences, other electronic means of communications, and face-to-face meetings if necessary.

Composition

The composition of the SWIM PMT will consist of technical experts (ATM, AIM, MET, and CNS) from States, ANSPs, Airspace users and other concerned international organizations, coordinated through the Airspace and Aerodrome Operations (AAO) subgroup and the Information and Infrastructure (IIM) Subgroup.

Reference documents

- Global Air Traffic Management Operational Concept – ICAO document 9854
- Global Air Navigation Plan (GANP) – ICAO Document 9750
- Manual on Global Performance of Air Navigation Services - ICAO Document 9883
- Procedures for Air Navigation Services – Information management (PANS-IM) (ICAO Doc 10199)
- Manual on the System-wide Information Management (SWIM) Concept - ICAO Document 10039
- Manual on the System-wide Information Management (SWIM) Implementation - ICAO Document 10203