Interregional APAC/EUR/MID Workshop

"Service improvement through integration of AIM, MET and ATM Information Services"

Summary and Conclusions

EUROCONTROL, Brussels, Belgium, 2-4 October 2017



Introduction

Attendance

- 138 Participants
- <u>37</u> States, <u>6</u> International Organizations
- 8 Industry exhibitors: Avitech, Frequentis, Harris, ITV, MClick, Snowflake Software, Solace, Solitech and Thales Group.

Organizing partners:

- ICAO APAC, EUR/NAT and MID
- EUROCONTROL (Host)

Workshop Objectives

- The objective of the Workshop was to address the planning and implementation issues of the Performance Improvement Area 2 ASBU Modules related to AIM, ATM, MET, FICE and SWIM, including the pre-requisites for an efficient and timely implementation of the Block 1 Modules.
- The Workshop provided a forum to share experience and best practices, and addressed the challenges and lessons learned associated with the PIA2 Block 0 and Block 1 implementation.
- An opportunity provided to visit the Exhibition, which was organised concurrently with the Workshop to showcase industry latest developments.



Agenda

- Agenda Item 1: Workshop Introduction and set the scene
- Agenda Item 2: Global Developments
- Agenda Item 3: PIA 2 Block 0 Modules
- Agenda Item 4: PIA 2 Block 1 Modules
- Agenda Item 5: AIM/MET/ATM Information Services' Integration through application of SWIM
- Agenda Item 6: Regional planning and implementation
- Agenda Item 7: Wrap up and Conclusion



Background

- SWIM is a key driver for greater ATM system interoperability.
- SWIM brings improvements and benefits in terms of Safety, Efficiency and Environment.
- SWIM is a "Service Oriented Architecture" and its implementation is an evolutionary approach rather than revolution.
- SWIM is about services, not only data; SWIM leverages a single interface to receive multiple data products



Current Status

- The progress of implementation of Block 0 PIA 2 Modules is below expectation.
- SWIM is an enabler for the implementation of the GANP Block 1+ Modules.
 - GANP is under review (improved version for 2019)
- Latest operating versions and their future upgrades of the Exchange models are:
 - AIXM: current versions under operational use are 4.5 and 5.1 (latest version). AIXM 5.2 is planned for 2018 and 5.3 for 2020 or later.
 - FIXM: latest/current version is 4.0. 4.1.0 is planned for December 2017 and 5.0.0 for June 2019.
 - IWXXM: current version is 2.1. version 3.1 is planned for end of 2018.



SWIM Pre-requisites

- Completion of Block 0 implementation, as the key prerequisite to transition to Block1, should be expedited.
- Implementation of exchange models in national databases (AIXM, FIXM, IWXXM, etc.) is a key enabler for SWIM, which should be considered by States/ANSPs.
- Data quality, automation, establishment of digital datasets and formal arrangements are critical prerequisites for the implementation of SWIM.

- Data exchange/interoperability is a challenge that should be taken into consideration.
- Information overload for pilots and controllers; information is too unfocused; risk to miss important information; and sometimes hard to interpret (e.g. Field 10)
- Delay in the implementation of Block 0 Modules.
- Need for additional guidance to implement Block 0 Modules
- Data security/cyber security is a challenge that needs to be considered.

Recommendations

- Need for harmonized standardization and guidance in different aspects of SWIM. Global provisions should allow for regional/local customization while not being too permissive to avoid divergent implementations/interpretations.
- Development of digital datasets is important to achieve interoperability and implement SWIM.
- States/Stakeholders are encouraged to:
 - contribute to further SWIM developments, support global harmonization and standardization of SWIM; and
 - implement and share their best practices/lessons learned.



Recommendations

- Encourage States to learn from current SWIM implementation initiatives (SWIM services/applications), especially the FAA and EUROCONTROL experiences.
- B1 Modules and SWIM implementation timelines should be more realistic, taking into consideration the challenges at the national and regional levels, delays in the implementation of B0 Modules as well as the identified needs and expected operational improvements.



Recommendations

- Need for Regional SWIM Roadmap (if not already available)
- Need for appropriate awareness and training to build the necessary competencies
- Exchange models backwards compatibility should be considered in future SWIM developments



Conclusions

- Inter/intra regional coordination in planning and implementation of SWIM will facilitate harmonized implementation
- Users should be involved in the identification of the needs and modeling of business processes (operational improvements/SWIM services).
- The workshop was successful in achieving its objective; and such inter-regional workshops/seminars should be conducted on regular basis.

 Participants thanked EUROCONTROL for hosting the Interregional Workshop and the generous hospitality as well as for the excellent cooperation and support provided.



