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APAC User Requirements for SWIM- Based MET Information Services Supporting ATFM (WP/16)

Presented by
MET/R WG Ad-hoc group

ATFM/SG/11, 2-6 Aug 2021





Introduction

- MET/R WG/8 in 2019
 - Australia, Hong Kong China, and Thailand proposed to develop a regional document on use cases and user requirements for SWIM based MET information services specifically to support ATFM in APAC
- MET/R WG/9 in 2020
 - proposal was further revised and presented, addressing the comments received at MET SG/23, ATM SG/7 and ATFM SG/10
 - established an ad-hoc group, consisting of MET and ATFM subject matter experts from Australia, Hong Kong China, Japan, Pakistan, Republic of Korea, Singapore, Thailand, Vietnam, CANSO, and IATA (**Attachment A**)



Introduction

- MET SG/24 in 2020
 - reviewed an updated proposal and TOR of the scope and objective of the work
 - **Decision MET SG/24-13: *Development of APAC User Requirements for SWIM-based MET Information Services Supporting ATFM***
 - That, the MET SG approves the terms of reference at the **Appendix 8** to the MET SG/24 Report regarding the scope and objectives of the MET/R ad hoc group to develop SWIM-based MET information services specifically addressing the needs of ATFM in the APAC Region.



Introduction

- This paper presents
 - the way forward to identify and document use cases and user requirements for SWIM-based MET information services supporting ATFM in the APAC region in coordination with other working groups
 - a draft version of the document for conducting user consultation



Current version of TOR

1. To focus on SWIM-based MET information services specifically addressing the needs of ATFM in the APAC region;
2. To document user requirements and use cases from ATFM in the APAC region to facilitate the development of future SWIM-based MET information services;
3. To supplement the global concept described in the MET-SWIM Plan, prepared by the METP WG-MIE, and the MET requirements being developed by the METP Working Group on Meteorological Requirements and Integration (WG-MRI) in a global sense and IWXXM development by METP WG-MIE for effective exchange of MET information supporting AFTM operation;



Current version of TOR

4. To assist SWIM TF in identifying and developing the specifications of information services required to support operations based on user needs;
5. To identify MET and ATFM data to be exchanged using SWIM-based Information Exchange Services in the region to enable the effective MET/ATM integration and to provide the baseline for further development of the regional SWIM data catalogue and service catalogue; and
6. To identify other granular MET-related requirements from ATFM perspective such as update frequency and forecast lead time of MET information to better support the development of future MET Information Exchange Services in the Region.



The reference document

- To facilitate the development of the use cases and user requirements, the draft reference document with two sample use cases were presented at MET/R WG/10 in May 2021
- as a basis to promote discussion with ATFM user groups and relevant stakeholders in APAC region for further development of ATFM-specific use cases and user requirements



Collaborative approach

- MET/R WG/10 WP/07 also presented a proposed collaborative approach by which the ad hoc group, including both MET and ATFM experts, would identify the use cases and user requirements.
- The user engagement would allow MET experts to
 - better understand the APAC ATFM operations in actual environment and
 - drive the development of SWIM-based MET information services which could better support users' decisions and operational processes.



Discussion at MET/R WG/10

- MET/R WG/10 and some ad-hoc group members reviewed the draft reference document and the collaborative approach
- The meeting requested the ad hoc group to
 - Coordinate its work with SWIM TF and other related sub groups, working groups;
 - Consider the outcomes from the related global discussion and plan led by ICAO MET Panel and relevant groups;
 - Consider the results from the *Survey of State Meteorological Information Supporting Air Traffic Management* (to be conducted in August 2021);
 - Revisit the definition of “use case”; and
 - Ensure the document does not infer any obligation on States to implement the SWIM-based MET Information Services described.



Updated Work Plan

- a) In coordination with other related sub groups, working groups, etc.,
 - Identify MET factors affecting ATFM operations;
 - Identify how often the current MET products be provided and the rules for updates to meet the ATFM needs; and
 - Identify any other MET information required by ATFM and gaps to meet the needs of ATFM users.
- b) Identify MET and ATFM data to be exchanged using SWIM-based Information Exchange Service
- c) Based on the findings (above), develop the APAC use cases and user requirements document for future SWIM-based MET information services supporting ATFM

*Ad-hoc group may revise the TOR to make sure that the updated work and TOR are aligned.



Updated draft reference document

- draft reference document was updated based on the comments received from MET/R WG/10 and ad-hoc group members
- provided in **Attachment B** for feedback, suggestions and further improvements by ATFM SG/11



Action by the meeting

The meeting is invited to:

- a) review the proposed reference document in Attachment B and provide suggestions on additional use cases, if any, for further analysis;
- b) discuss any relevant matters as appropriate.

APAC USER REQUIREMENTS
FOR SWIM-BASED MET INFORMATION SERVICES
SUPPORTING ATFM

(Draft Version, July 2021)



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THANK YOU