



ICAO

*International Civil Aviation Organization***Seventh Meeting of Aeronautical Communication Service Implementation Co-ordination Group of APANPIRG (ACSICG/7)**

Web-conference, 21 – 23 July 2020

Agenda Item 5: Report on the readiness status of AMHS to support IWXXM service by November 2020

**READINESS STATUS OF AMHS TO SUPPORT IWXXM SERVICE BY
NOVEMBER 2020 IN INDONESIA**

(Presented by Indonesia)

SUMMARY

This paper presents write the readiness status of AMHS, particularly in Jakarta, to support the IWXXM service by November 2020 in Indonesia.

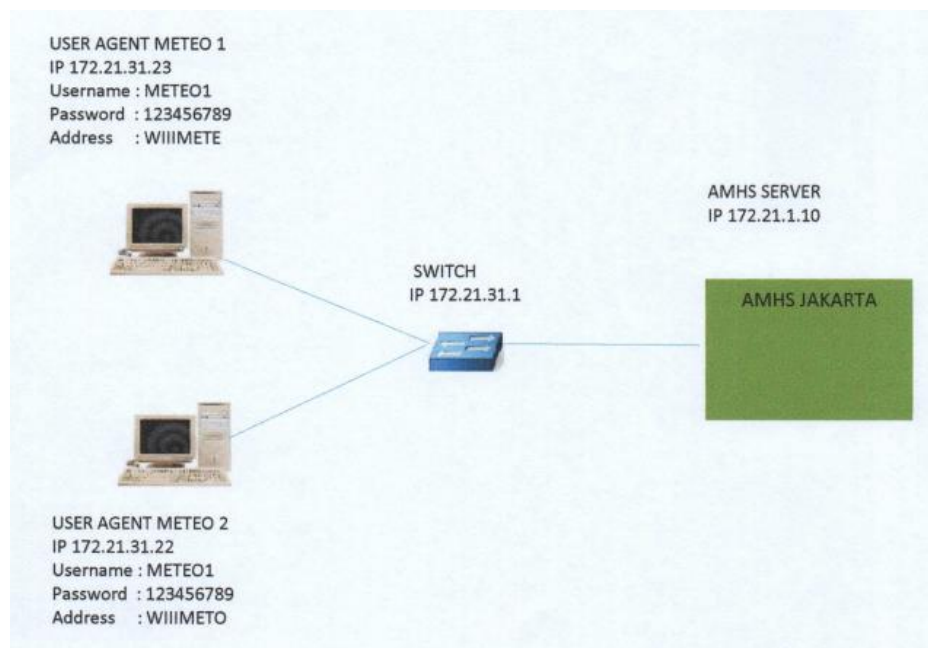
1. INTRODUCTION

- 1.1 IWXXM has been adopted by ICAO for operation on November 2020.
- 1.2 Indonesia is preparing the AMHS to ensure the readiness for supporting the IWXXM service.
- 1.3 Indonesia is connected to RODB Singapore through AMHS in Jakarta.
- 1.4 Indonesia has performed trial stage 1 on AMHS Jakarta for delivering OPMET messages with IWXXM format on 14 February 2020. The trial stage 2 was planned on April 2020 however due to the COVID-19 pandemic situation, the trial was postponed.
- 1.5 The trial stage 1 purpose is to ensure the conversion of OPMET messages into IWXXM format and the ability of AMHS to support the IWXXM service. The trial stage 2 purpose is to ensure the exchange of OPMET messages with IWXXM format can be performed between Indonesia Meteorological Bureau and RODB Singapore.

2. DISCUSSION

- 2.1 The scenario of the trial stage 1 is as follows:
 - Conversion of the OPMET messages into XML format (IWXXM format version 3.0)
 - OPMET messages with IWXXM format are exchanged between two User Agents connected to AMHS Jakarta.

- A stress load test was also applied in the trial which was divided into 3 (three) stages: 100 data, 200 data, and 400 data, which were sent to the agent in parallel. The User Agent received all complete data in all stages orderly.
- During the trial, all data was received in the correct folder in AMHS system namely OPMET folder, which indicated that the data was received in the User Agent, except of TAF, which was received in another folder namely 'inbox'. This led to a good lesson learned that a header should be added in the TAF exchange, which was identified immediately at that moment.

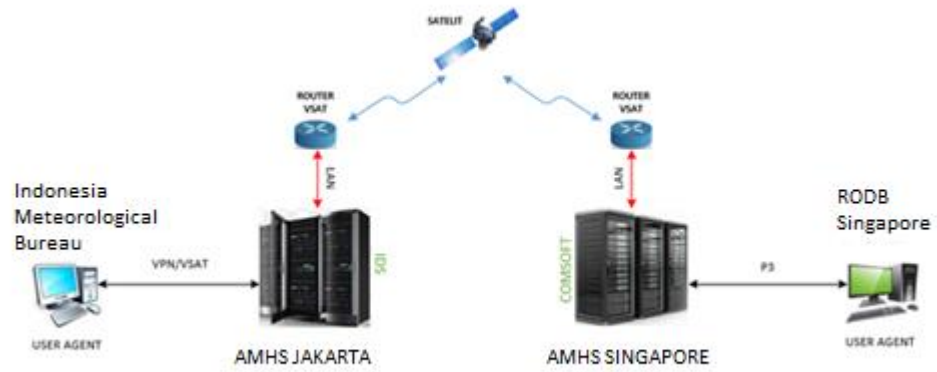


Picture 1. Scenario for Trial Stage 1

2.2 The trial stage 1 was successful and ensured that:

- Indonesia Meteorological Bureau can support the conversion of OPMET messages into and from IWXXM format version 3.0.
- AMHS Indonesia can support the exchange of IWXXM service.

2.3 Indonesia has prepared the concept of operation and scenarios for trial stage 2 and is coordinating with RODB Singapore for the trial.



Picture 2. Scenario for Trial Stage 2

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matter as appropriate

AMHS READINESS REPORT FOR SUPPORTING IWXXM TRAFFIC

- Name of State (Administration)/name of BBIS/BIS location where AMHS is installed:
INDONESIA (JAKARTA FIR)
- AFTN/AMHS transition date/schedule: 1 February 2018
- Readiness Status of AMHS for supporting File Transfer Body Part (FTBP), the Interpersonal Message (IPM) Heading Extension (IHE) to support for exchanging IWXXM reports of a maximum size of 4MB and FTBP of maximum 2MB: ready
- Capacity status of the operational AFS links to support the exchange of the required meteorological information in both IWXXM GML form and TAC form: waiting for trial stage 2 for assessment.
