



International Civil Aviation Organization

**SIXTEENTH MEETING OF THE
COMMUNICATIONS/NAVIGATION/SURVEILLANCE AND
METEOROLOGY SUB-GROUP (CNS/MET SG/16) OF APANPIRG**

Bangkok, Thailand, 23 – 27 July 2012

Agenda Item 12: Implementation of the issuance of OPMET (TAF, METAR, SPECI) Exchanges

6) implementation of XML

SUMMARY OF MARIE-PT ACTIVITIES

(Presented by the Secretariat)

SUMMARY

This paper presents a summary of the MARIE-PT activities in relation to aeronautical meteorological information and information exchange using XML to support ATM.

This paper relates to – **Strategic Objectives:**

Strategic Objectives

A: Safety - *Enhance global civil aviation safety*

C: Environmental Protection and Sustainable Development of Air Transport - *Foster harmonized and economically viable development of international civil aviation that does not unduly harm the environment*

Global Plan Initiatives:

GPI-9 Situational awareness

GPI-19 Meteorological Systems

1. Introduction

1.1 The Meteorological Aeronautical Requirements and Information Exchange Project Team (MARIE-PT) was born out of the Aerodrome Meteorological Observation and Forecast Study Group (AMOFSG/9) agreement (with a link to the ATMRPP) to establish a dedicated team to work on the evolving requirements for aeronautical meteorological information and information exchange to support ATM.

1.2 As its name suggests, there are two aspects of the work to be done by the MARIE-PT; one covering the future ATM requirements for meteorological information and the second covering the future meteorological information exchange. In this second aspect of work, ICAO seeks to harmonize data exchange technology around GML/XML – including OPMET – with the first iteration being development of logical data models for METAR/SPECI, TAF and SIGMET information.

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2. Discussion

2.1 The first meeting of the of the MARIE-PT was held at the International Civil Aviation Organization (ICAO) Headquarters in Montréal, Canada, from 20 to 21 February 2012, and was attended by ten (10) members from eight (8) States, EUROCONTROL and World Meteorological Organization (WMO). The meeting formulated a list of actions and milestones for work related to digital exchange of aeronautical meteorological information and the associated ATM requirements.

2.2 The development of logical data models for METAR/SPECI, TAF and SIGMET is well underway and being assisted by the WMO through its Expert Team on Meteorological Services to ATM & MET Information Exchange (ET/M&M). Delivery of XML/GML schema, and metadata profiles, is expected in July 2012.

2.3 The associated Draft Manual on Digital Exchange of Aeronautical MET Information is expected to be completed in release version at the end of 2012 and publication version by mid-2013 to support the Amendment 76 to Annex 3, permitting bilateral exchange of OPMET data via XML (for States in a position to do so).

2.4 This first edition of the Manual on the Digital Exchange of Aeronautical Meteorological Information is intended as a guide for use by State authorities, providers of meteorological services and other aeronautical personnel on procedures, codes and the use of communications for the digital exchange of aeronautical meteorological information.

2.5 The Draft Manual on Digital Exchange of Aeronautical MET Information (and other documentation relating to the MARIE-PT and information exchange via XML) is available at the MARIE-PT website: <http://www.icao.int/safety/meteorology/amofsg/Pages/default.aspx>.

3. Action by the Meeting

3.1 The meeting is invited to note the information contained in this paper.
