



International Civil Aviation Organization

**THIRD MEETING OF ASIA/PAC OPMET MANAGEMENT TASK FORCE
OF CNS/MET SUB-GROUP OF APANPIRG (OPMET/M TF/3)**

Bangkok, Thailand, 2-4 March 2005

Agenda Item 4d: RODB Quality Control Procedures

THE OPERATION OF SINGAPORE OPMET DATABANK

(Presented by Singapore)

SUMMARY

This paper provides some details on the current quality control and correction procedures carried out at Singapore RODB.

1. INTRODUCTION

1.1 The bulk of the non-regular OPMET data exchange in the inter-regional OPMET Gateway (IROG), Singapore, is through the request-and-response computerized databank system. This paper provides details on the current quality control and correction procedures carried out at RODB Singapore.

2. OPMET MESSAGES VALIDATION & CORRECTION

2.1 The front-end Message Switch and Data Management System (MESSIR-COMM Computer System) can be configured to validate messages based on pre-defined rules. Messages that fail are routed to the correction queue for further action.

The System is currently configured to validate the following:

- a) WMO Header (TTAAii CCCC) errors – based on the pre-defined TTAAii CCCC setup
- b) Duplication checks on heading and text, in order to discard identical messages
- c) YYGGgg check for late METARs. If the observation time of a METAR is older than the configurable period (Max Late), this message will be rejected and routed to the correction queue.

2.2 In order to salvage messages that are rejected as a result of obvious typographical errors such as a missing space in the header, the correction is further scanned and corrected on-screen and re-submit for automatic validation by the system. Correction is only done on the most obvious. Some common corrections done are listed as follows:

TYPE	CORRECTION
WMO header error (TTAAii CCCC)	Common error is the substitution of digit '0' for letter 'O' in the header. Example: SAAE31 VECC 150750 METAR VNKT 150750Z 00000KT 5000 BR FEW025 FEW030CB BKN100 17/XX Q1011 NOSIG=
Wrong YYGGgg	A missing digit from the YYGGgg or an invalid date/time Example: SAIN32 VIDP 15230 METAR VIDP 152330Z 36003KT 2800 HZ SCT040 SCT100 15/13 Q1006 NOSIG= Example: SABM31 VYYY 160030 UTC METAR VYYY 160030Z 28006KT 6000 BR N S C 21/20 Q1010=
Wrong BBB	An illegal optional group, such as AMD, RTD, COR Example: SAID31 WWWW 160000 COR METAR COR WWWW 160000Z 00000KT 8000 HZ SCT016 27/24 Q1011=
Unknown heading	The header is unknown, the operator will 'ask for repetition', the system generates a request of repetition to the remote station. Example: GG WSSSYPYX 152003 WADDYMYT SAPD31 WADD KTWPPZ PN H H WADD 020=KT 9999 SKTQI WUXWR Q1010,NSG= FF WSSSYMYX 152059 YMMCYMYX 40:3:1:24:40S112E999:11:00 IDW21200 SECURITE

It is planned that some of these common errors to be incorporated in the automatic correction in the future.

3. ACTION BY THE MEETING

3.1 The meeting is invited to comment and discuss the procedures.

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