



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 4: Development of procedures for monitoring and management of OPMET exchange:

- b) OPMET bulletins update procedure
- d) OPMET data banks quality control procedures

**PROVISION OF ROUTING OF ASIA/PAC OPMET BULLETINS
BY BANGKOK RODB
(BACKUP PROCEDURES FOR OPMET EXCHANGE BETWEEN EUR AND ASIA/PAC)**

(Presented by Singapore and Thailand)

SUMMARY

This paper presents backup procedures that RODB Bangkok provides OPMET exchange backup to RODB Singapore as IROG for EUR.

1. INTRODUCTION

1.1 As a follow-up of the previous ASIA/PAC OPMET Management Task Force Meeting, RODB Singapore and RODB Bangkok inform backup procedures for OPMET exchange between EUR and ASIA/PAC.

2. DISCUSSION

2.1 The purpose of these procedures is to layout the procedures for dissemination of Asia/Pac OPMET Bulletins to WAFC, London by Bangkok RODB in the event of Singapore RODB had a failure in their telecommunication network/system.

2.2 The procedures can be divided into 5 main steps:

Step 1: Singapore ROBD provides the Asia/Pac OPMET bulletins information to enable Bangkok ROBD to establish the backup distribution arrangement. Both RODBs are responsible to update the predefined distribution lists as and when required.

Step 2: To activate the backup plan, both RODBs will communication through facsimile and email.

- Step 3: Both RODBs will provide the contact points information and update periodically if required.
- Step 4: Both RODBs will review the backup procedures and identify areas for improvement.
- Step 5: The ICAO Regional Secretariat will co-ordinate the requirement for specific or additional procedures to be included in the plan during the OPMET Management TF meeting.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to discuss and comment these backup procedures in order to be improved in the future.

-END-

Title: Provision of Routing of Asia/Pac OPMET Bulletins by Bangkok RODB (Backup procedures for OPMET exchange between EUR and ASIA/PAC)	Doc No: 1/04/04
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PURPOSE

- 1.1 To layout the procedures for dissemination of Asia/Pac OPMET Bulletins to WAFC, London by Bangkok RODB in the event of Singapore RODB had a failure in their telecommunication network/system.

2 SCOPE

- 2.1 The procedure covers the backup plan in support of the OPMET exchange between EUR and ASIA/PAC.

3 PROCEDURES

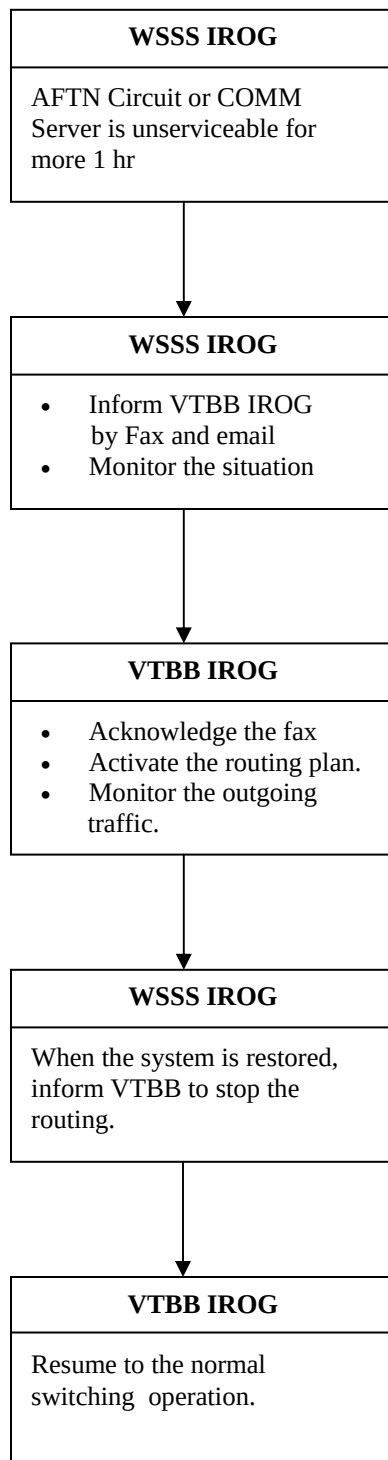
- 3.1 Singapore ROBD provides the Asia/Pac OPMET bulletins information to enable Bangkok ROBD to establish the backup distribution arrangement. Both RODBs are responsible to update the predefined distribution lists as and when required.
- 3.2 To activate the backup plan, both RODBs will communication through facsimile and email.
- 3.3 Both RODBs will provide the contact points information and update periodically if required.
- 3.4 Both RODBs will review the backup procedures and identify areas for improvement.
- 3.5 The ICAO Regional Secretariat will co-ordinate the requirement for specific or additional procedures to be included in the plan during the OPMET Management TF meeting.

4 APPENDICES

- Appendix 1: Procedures to activate the backup plan. (in flowchart format)
- Appendix 2: Sample of Request Message sent by Singapore RODB to activate the backup relaying
- Appendix 3: Sample of Reply Message sent by Bangkok RODB
- Appendix 4: Sample of Request Messages to cease the routing of AP OPMET sent by Singapore RODB
- Appendix 5: Sample of Reply Messages to cease the routing sent by Bangkok RODB
- Appendix 6: Asia/Pac TAF & METAR Messages for distribution to WAFC, London

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Appendix 1: Procedures to activate the backup plan (in flowchart format)



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Appendix 2: Sample of Request Message sent by Singapore RODB to activate the backup relaying



From : Shift Supervisor
Main Met Office
Meteorological Services Division
Room 048-016, 4th storey, South Finger
Terminal 2, Changi Airport
Singapore 819643.

To : Aeronautical Network Manager
Aeronautical Network Management Department.
Aeronautical Radio of Thailand.
102 Ngamduplee Tungmahamek Sathorn Bangkok Thailand .
Bangkok 10120
Tel : 662 2859084
Fax : 662 2873131

Dear Sir,

Request of Backup to Singapore IROG for Routing of Asia/Pac OPMET Bulletins to EUR

Due to Singapore AFTN circuit/COMM Server is unserviceable for the past one hour, please active the routing of AP OPMET to WAFC, London until further notice.

We will keep you posted on the outcome.

Thank you.

[Name]
Shift Supervisor
Main Met Office, Changi Airport
Meteorological Services Division
National Environment Agency
Tel : 65-5422837
Fax : 65-5422915

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Appendix 3: Sample of Reply Message sent by Bangkok RODB

Aeronautical Radio of Thailand



From : Aeronautical Network Manager
Aeronautical Network Management Department.
Aeronautical Radio of Thailand.
102 Ngamduplee Tungmahamek Sathorn Bangkok Thailand .
Bangkok 10120

To : Shift Supervisor
Main Met Office
Meteorological Services Division
Room 048-016, 4th storey, South Finger
Terminal 2, Changi Airport
Singapore 819643.

Dear Sir,

From your request of Backup Singapore IROG for Routing of Asia/Pac OPMET Bulletins to EUR. We will operate within 5mins.

Please inform us again when back to normal.

Best regards.

[Name]

Aeronautical Network Manager
Aeronautical Network Management Department.
Aeronautical Radio of Thailand.
102 Ngamduplee Tungmahamek Sathorn Bangkok Thailand .
Bangkok 10120
Tel : 662 2859084
Fax : 662 2873131

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Appendix 4: Sample of Request Messages to cease the routing of AP OPMET
sent by Singapore RODB

From : Shift Supervisor
Main Met Office
Meteorological Services Division
Room 048-016, 4th storey, South Finger
Terminal 2, Changi Airport
Singapore 819643.



To : Aeronautical Network Manager
Aeronautical Network Management Department.
Aeronautical Radio of Thailand.
102 Ngamduplee Tungmahamek Sathorn Bangkok Thailand .
Bangkok 10120
Tel : 662 2859084
Fax : 662 2873131

Dear Sir,

Request to Cease the Routing of Asia/Pac OPMET Bulletins to EUR

Singapore AFTN circuit/COMM Server is now back to normal, appreciated it if you could kindly stop the routing of AP OPMET to WAFC, London with immediate effect. Thank you for your time.

Best Regards.

[Name]
Shift Supervisor
Main Met Office, Changi Airport
Meteorological Services Division
National Environment Agency
Tel : 65-5422837
Fax : 65-5422915

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Appendix 5: Sample of Reply Fax Messages to cease the routing sent by Bangkok RODB

Aeronautical Radio of Thailand



From : Aeronautical Network Manager
Aeronautical Network Management Department.
Aeronautical Radio of Thailand.
102 Ngamduplee Tungmahamek Sathorn Bangkok Thailand .
Bangkok 10120

To : Shift Supervisor
Main Met Office
Meteorological Services Division
Room 048-016, 4th storey, South Finger
Terminal 2, Changi Airport
Singapore 819643.

Dear Sir,

From your request to Cease the Routing of Asia/Pac OPMET Bulletins to EUR

Bangkok stop the routing of AP OPMET to WAFC, London.

Best Regards.

[Name]

Aeronautical Network Manager
Aeronautical Network Management Department.
Aeronautical Radio of Thailand.
102 Ngamduplee Tungmahamek Sathorn Bangkok Thailand .
Bangkok 10120
Tel : 662 2859084
Fax : 662 2873131

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Appendix 6: Asia/Pac TAF & METAR Messages for distribution to WAFC, London

Dissemination of Asia/Pac TAF Bulletins to the WAFC, London by IROG Singapore				
1			2	3
METAR Bulletin			Originator	DISSEMINATION TO
BUL Header	Filing Time	Station CCCC		AFTN Address
FTNZ31 NZKL	05/10/16/22	NZAA	NZKLYMYX	EGZZMASI
		NZWN		
		NZCH		
FTPK31 OPKC	04/10/16/22	OPKC	OPKCYZYX	EGZZMASI
		OPLA		
		OPNH		
		OPRN		
		OPPS		
		OAKB		
		OAKN		
FTJP31 RJTD	03/09/15/21	RJAA	RJAAPYX	EGZZMASI
		RJBB		
		RJTT		
		RJOO		
		ROAH		
		RJCH		
		RJSS		
FTJP32 RJTD	03/09/15/21	RJFF	RJAAPYX	EGZZMASI
		RJNN		
		RJCC		
		RJFK		
		RJSN		
		RJFU		
		RJFT		
		RJOA		
		RJOB		
		RJOT		
		RJFO		
		RJNT		
		RJNK		
FTKO31 RKSI	05/11/17/23	RKSI	RKSIYPYX	EGZZMASI
		RKSS		
		RKPC		
		RKPK		
		RKTU		
		RKNY		
		RKTN		
FTAS31 VABB	03/09/15/21	VAAH	VABBYMYX	EGZZMASI
		VABB		
		VANP		
		VECC		

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		VIDP		
		VIJP		
		VILK		
FTAS32 VABB	03/09/15/21	VCBI	VABBYMYX	EGZZMASI
		VNKT		
		VOCI		
		VOMM		
		VOTV		
FTIN31 VIDP	03/09/15/21	VIDP	VIDPYMYX	EGZZMASI
		VIJP		
		VILK		
FTIN32 VOTV	03/09/15/21	VOTV	VOTVYMYX	EGZZMASI
		VOCI		
		VOCL		
FTHK31 VHHH	04/10/16/22	VHHH	VHHHYPYX	EGZZMASI
		RCTP		
		RCKH		
		RCSS		
		VMMC		
		RPLL		
		RPVM		
		RPLB		
		RPMD		
		RPLI		
		RPMZ		
FTAS31 VTBB	04/10/16/22	VTBD	VTBBYPYX	EGZZMASI
		VYYY		
		VGZR		
		VLVT		
		VVTS		
		VDPP		
FTAS32 VTBB	04/10/16/22	VTBU	VTBBYPYX	EGZZMASI
		VTCC		
		VTSS		
		VTSP		
		VVDN		
		VVNB		
		VYMD		
FTID31 WIII	04/10/16/22	WIII	WIIIMYF	EGZZMASI
FTVS31 VVTS	04/10/16/22	VVTS	VVTSYMYX	EGZZMASI
FTSR31 WSSS	04/10/16/22	WSSS	WSSSYPYX	EGZZMASI
		WSAP		
		WMKK		
		WMSA		

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		WMKP		
		WMKJ		
		WIII		
		WIIH		
		WRRR		
		WRSJ		
FTSR32 WSSS	04/10/16/22	WBSB	WSSSYPYX	EGZZMASI
		WBKK		
		WBGG		
		WIMM		
FTAU31 YBBN	05/11/17/23	YSSY	YBBBZEZX	EGZZMASI
		YPAD		
		YBBN		
		YMML		
		YBCS		
		YPPH		
		YPDN		
		YBAS		
		YPTN		
		YPXM		
FTAU32 YBBN	05/11/17/23	YSCB	YBBBZEZX	EGZZMASI
		YBCG		
		YMAV		
		YBRK		
		YPLM		
		YPKG		
		YPPD		
		YPEA		
		YPCC		
		YSRI		
		YBTL		
		YWLM		
FTCI 31 ZBBB	05/11/17/23	ZBAA	ZBBBYPYX	EGZZMASI
		ZBSJ		
		ZBTJ		
		ZBYN		
		ZGGG		
		ZSHC		
		ZSPD		
		ZSSS		
		ZWWW		
		ZYTL		
		ZYTX		
FTCI32 ZBBB	05/11/17/23	ZGKL	ZBBBYPYX	EGZZMASI
		ZGNN		
		ZGOW		
		ZGSZ		
		ZLXY		
		ZMUB		
		ZPPP		
		ZSAM		
		ZSQD		

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		ZUUU		
FTTH31 VTBB	04/10/16/22	VTCT	VTBBYPYX	EGZZMASI
		VTCL		
		VTCT		
		VTCP		
		VTCH		
		VTCP		
		VTPT		
		VTPO		
		VTBP		
		VTCH		
		VTCK		
		VTPI		
FTTH32 VTBB	04/10/16/22	VTST	VTBBYPYX	EGZZMASI
		VTSM		
		VTSC		
		VTST		
		VTST		
		VTST		
		VTST		
		VTST		
		VTST		
		VTST		
FTTH33 VTBB	04/10/16/22	VTUU	VTBBYPYX	EGZZMASI
		VTUD		
		VTUI		
		VTUJ		
		VTUK		
		VTUL		
		VTUO		
		VTUQ		
		VTUV		
		VTUW		

Dissemination of Asia/Pac METAR Bulletins to the WAFC, London by IROG Singapore				
1			2	3
METAR Bulletin			Originator	DISSEMINATION TO
BUL Header	Bulletin Time	Station CCCC		AFTN Address
SANZ31 NZKL	HH + 00	NZAA	NZKLYMYX	EGZZMASI
		NZWN		
		NZCH		
SAPK31 OPKC	HH + 59	OPKC	OPKCYZYX	EGZZMASI
		OPLA		
		OPNH		
		OPRN		

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SAFE31 RJTD	HH + 00	RJAA	RJAAYPYX	EGZZMASI
		RJBB		
		RJTT		
		RJOO		
		ROAH		
		RJNN		
SAFE32 RJTD	HH + 00	RJFF	RJAAYPYX	EGZZMASI
		RJCC		
		RJFK		
		RJFU		
		RJCH		
SAKO31 RKS	HH + 00	RKSI	RKSIYPYX	EGZZMASI
	HH + 30	RKSS		
		RKPC		
		RKPK		
		RKTU		
		RKNY		
		RKTN		
SAAS31 VTBB	HH + 00	VTBD	VTBBYPYX	EGZZMASI
	HH + 30	VTBU		
		VTCC		
		VTSS		
		VTSP		
		VLVT		
		VYYY		
		VVTS		
		VVNB		
		VVDN		
		VDPP		
		VYMD		
SAIN31 VABB	HH + 40	VAAH	VABBYMYX	EGZZMASI
		VABB		
		VANP		
		VOHY		
		VOTV		
		VOMM		
		VOTR		
SAIN32 VIDP	HH + 30	VIDP	VIDPYMYX	EGZZMASI
		VILK		
		VIAR		
		VIBN		
		VIJP		
SAHK31 VHHH	HH + 00	VHHH	VHHHPYX	EGZZMASI
		RCTP		
		RCKH		
		RPLL		

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		RPVM		
		VMMC		
		RPMD		
		RPLB		
		RPLI		
		RPMZ		
SAID31 WIII	HH + 00	WIII	WIIIPYX	EGZZMASI
		WIIH		
		WIMM		
		WRSJ		
		WRRR		
		WAAA		
		WABB		
SAMS31 WMKK	HH + 00	WBGG	WMKKYMYX	EGZZMASI
	HH + 30	WBKK		
		WBSB		
		WMKK		
		WMKP		
		WSSS		
SAAU31 YBBN	HH + 00	YSSY	YBBBZEZX	EGZZMASI
		YMML		
		YBBN		
		YPAD		
		YBCS		
		YPDN		
		YPPH		
		YBAS		
		YPLM		
		YBTL		
		YPCC		
		YPXM		
		YPTN		
		YPKU		
SACI 31 ZBBB	HH + 00	ZBAA	ZBBBYPYX	EGZZMASI
		ZBSJ		
		ZBTJ		
		ZBYN		
		ZGGG		
		ZSHC		
		ZSPD		
		ZSSS		
		ZWWW		
		ZYTL		
		ZYTX		
SACI32 ZBBB	HH + 00	ZGKL	ZBBBYPYX	EGZZMASI
		ZGNN		
		ZGOW		
		ZGSZ		
		ZLXY		
		ZMUB		
		ZPPP		
		ZSAM		

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		ZSQD		
		ZUUU		
SAAE31 VECC	HH + 50	VECC	VTBBYPYX	EGZZMASI
		VEPT		
		VGEG		
		VGZR		
		VNKT		
SASB31 VCCC	HH + 10	VCBI	VCCCYPYX	EGZZMASI
		VRMM		