



**Eighth Meeting of the Communications/Navigation/Surveillance and
Meteorology Sub-Group (CNS/MET SG/8) of APANPIRG**

Bangkok, Thailand, 12 –16 July 2004

Agenda Item 9: Exchange of OPMET Information

NEW OPMET INFORMATION MONITORING SOFTWARE

(Presented by Thailand)

SUMMARY

This paper provides a brief presentation which describes the overview, configuration and process of the Bangkok RODB's new online OPMET monitoring software

1. INTRODUCTION

1.1 Referring to the Second Meeting of ASIA/PAC OPMET Management Task Force Meeting, the Bangkok RODB performed developing special OPMET monitoring software as the first trail, which was expected to be completed before CNS/MET SG/8 meeting in July 2004.

2. DISCUSSION

2.1 The Bangkok RODB has developed and implemented new online OPMET monitoring software for in-house uses since November 2003.

2.2 Attachment illustrates the overview, configuration and process of the monitoring software and some software-display examples.

3. ACTION

3.1 The meeting is invited to suggest and comment Bangkok RODB's OPMET information monitoring software.

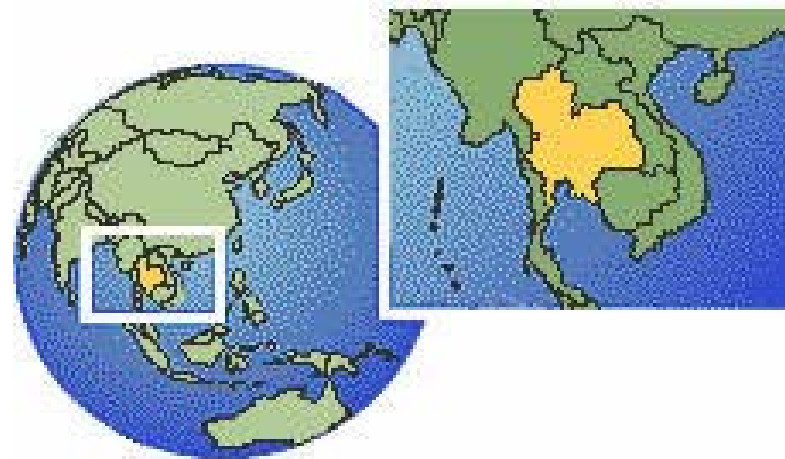


OPMET Information Monitoring

present by

Mr. Thavit Nowvaratkoonchai

Aeronautical Radio of Thailand Ltd.





The Objective of OPMET

Information Monitoring

- **To analyse in regard to the availability and regularity of OPMET incoming messages;**
- **To monitor as part of quality control procedure; and**
- **To keep statistics for the future OPMET data volume.**



Supported Data Types of OPMET Information Monitoring

- **METAR (SA) - Routine Aviation Meteorological Reports**
- **TAFOR (FC) - Aerodrome Forecasts 9 and 12 hours**
- **TAFOR (FT) - Aerodrome Forecasts 18 and 24 hours**
- **AIREP (UA) - Air-reports**
- **SPECI (SP) - Special Aviation Meteorological Reports**
- **SIGMET (WS) - Significant MET Conditions**
- **SIGMET (WC) - Significant MET Conditions for
Tropical Cyclone**
- **SIGMET (WV) - Significant MET Conditions for
Volcanic Ash**
- **FK - Tropical Cyclone Advisories**
- **FV - Volcanic Ash Advisories**



Related Applications

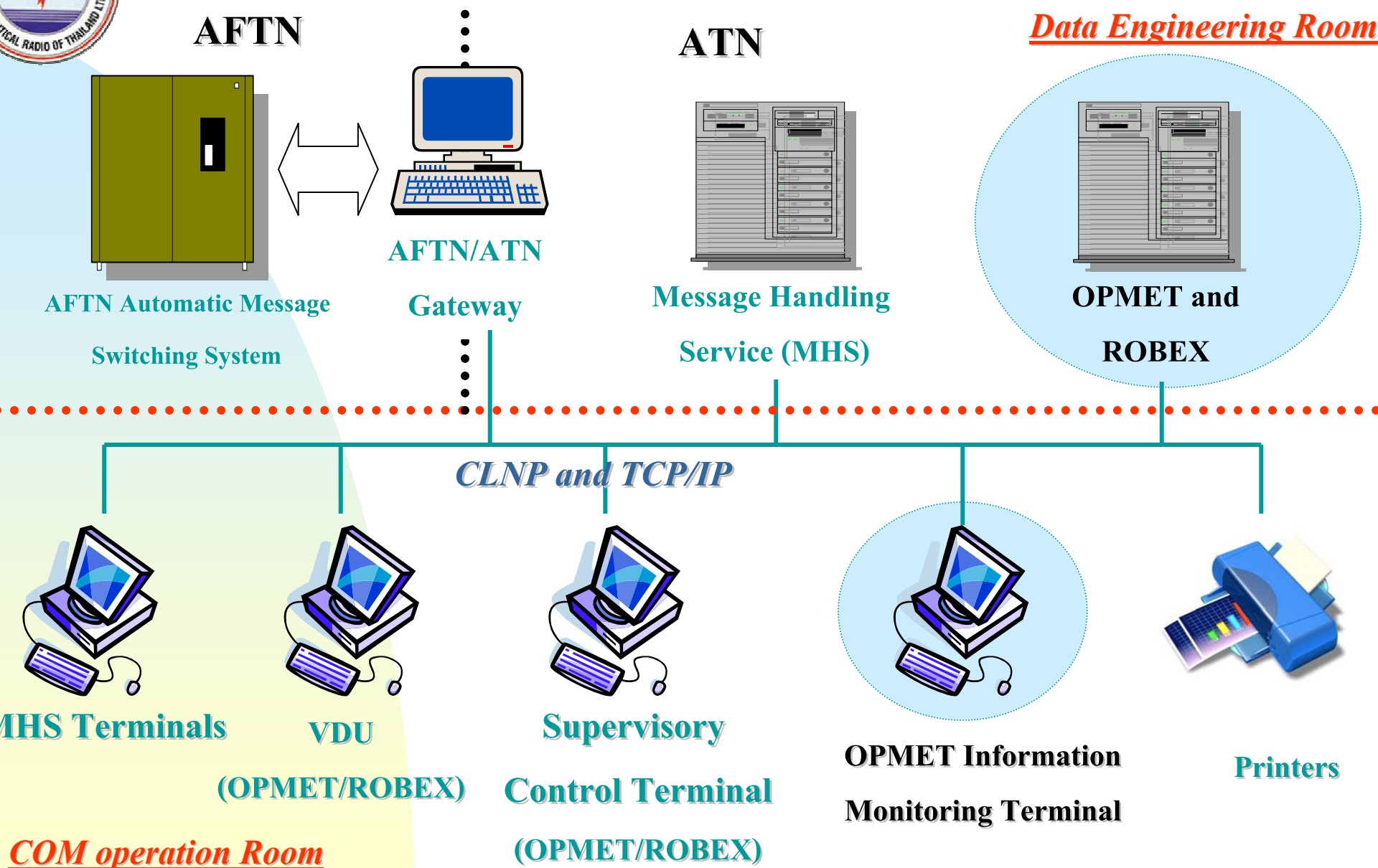
- **Supervisory Control Terminals**
 - ◆ **Operational Control Unit (OCU)**
 - ◆ **Operational Report Unit (ORU)**
 - ◆ **Journal (JNL)**

- **Visual Display Units (VDUs)**
 - ◆ **ROBEX Reject Position**
 - ◆ **OPMET Reject Position**





Systems Configuration





Software and Hardware Specification

■ OPMET Data Bank Server

- ◆ **Hardware:** SUN Enterprise 3500
- ◆ **Software:** Java Programming version 1.3.0
- ◆ **Operating System :** Solaris 2.6
- ◆ **Database :** Informix 2000

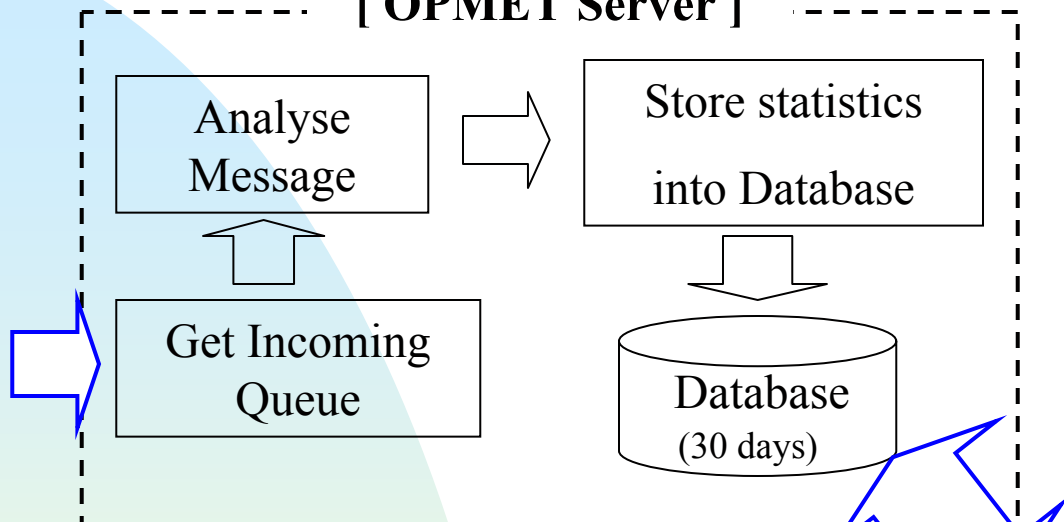
■ OPMET Information Monitoring Terminal

- ◆ **Hardware:** Personal Computer (Pentium III or better)
- ◆ **Software:** Borland Delphi Programming and Seagate Crystal Report
- ◆ **Operating System :** MS Windows 98/NT/2000/XP

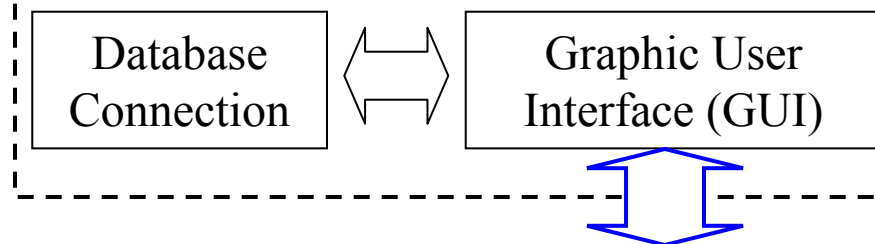


OPMET Monitoring Process

[OPMET Server]



[OPMET Monitoring Terminal]





Incoming Message Monitoring Screen

OPMET Data Bank Monitoring

OPMET Data Bank Monitoring

Incoming Messages Monitoring | Cross-Tab Incoming Monitoring | Summary Monitoring | FTP *.in

Select Date : 7/7 / 2547

Time : From : 0:00:00 To : 23:59:59

☒ SA ☐ FT ☐ FC ☐ UA ☐ SP ☐ WS ☐ WV ☐ FK ☐ FV ☐ WC ☐ WO

Filing Time :

WMO Bulletin : AS31 VTBB

Station :

☐ Show Station

Originator :

Time of WMO Line :

Optional Group :

Clear Display



Example of Incoming Messages Monitoring

1 of 1 120% Total:33 100% 33 of 33 **VTBBTES**

Incoming Messages Information

Printed : 08/07/2004 3:56:52 From 07/07/2004 00:00:00 to 07/07/2004 23:59:59

No.	TOR	Filing Time	Originator	Type	Bulletin	Time of WMO Line	Optional Group
1	07/07/2004 00:10:34	070010	VTBBYPYX	SA	AS31 VTBB	070000	
2	07/07/2004 00:33:42	070033	VTBBYPYX	SA	AS31 VTBB	070000	CCA
3	07/07/2004 00:40:15	070040	VTBBYPYX	SA	AS31 VTBB	070030	
4	07/07/2004 01:10:34	070110	VTBBYPYX	SA	AS31 VTBB	070100	
5	07/07/2004 01:40:18	070140	VTBBYPYX	SA	AS31 VTBB	070130	
6	07/07/2004 02:10:35	070210	VTBBYPYX	SA	AS31 VTBB	070200	
7	07/07/2004 02:40:14	070240	VTBBYPYX	SA	AS31 VTBB	070230	
8	07/07/2004 03:10:36	070310	VTBBYPYX	SA	AS31 VTBB	070300	
9	07/07/2004 03:40:13	070340	VTBBYPYX	SA	AS31 VTBB	070330	
10	07/07/2004 04:10:33	070410	VTBBYPYX	SA	AS31 VTBB	070400	
11	07/07/2004 04:40:18	070440	VTBBYPYX	SA	AS31 VTBB	070430	
12	07/07/2004 05:10:34	070510	VTBBYPYX	SA	AS31 VTBB	070500	
13	07/07/2004 08:54:33	070854	VTBBYPYX	SA	AS31 VTBB	070530	RRA
14	07/07/2004 08:54:42	070854	VTBBYPYX	SA	AS31 VTBB	070530	RRB
15	07/07/2004 08:54:54	070854	VTBBYPYX	SA	AS31 VTBB	070530	RRC
16	07/07/2004 08:54:17	070854	VTBBYPYX	SA	AS31 VTBB	070530	
17	07/07/2004 08:55:04	070854	VTBBYPYX	SA	AS31 VTBB	070530	RRD
18	07/07/2004 08:55:48	070855	VTBBYPYX	SA	AS31 VTBB	070530	RRF
19	07/07/2004 08:56:02	070855	VTBBYPYX	SA	AS31 VTBB	070530	RRG
20	07/07/2004 08:55:24	070855	VTBBYPYX	SA	AS31 VTBB	070530	RRE
21	07/07/2004 08:56:11	070855	VTBBYPYX	SA	AS31 VTBB	070530	RRH
22	07/07/2004 08:56:24	070855	VTBBYPYX	SA	AS31 VTBB	070530	RRJ
23	07/07/2004 08:56:39	070856	VTBBYPYX	SA	AS31 VTBB	070530	RRK
24	07/07/2004 11:57:40	071157	VTBBYPYX	SA	AS31 VTBB	071130	RRA



Cross-Tab Incoming Monitoring Screen

OPMET Data Bank Monitoring

OPMET Data Bank Monitoring

Incoming Messages Monitoring | Cross-Tab Incoming Monitoring | Summary Monitoring | FTP *.in

Select Date : 7/7 / 2547

Time : From : 0:00:00 To : 23:59:59

☒ SA ☐ FT ☐ FC ☐ UA ☐ SP ☐ WS ☐ WV ☐ FK ☐ FV ☐ WC ☐ WD

WMD Bulletin : AS31 VTBB

Clear Display



Choose a Monitoring Date

OPMET Data Bank Monitoring

OPMET Data Bank Monitoring

Incoming Messages Monitoring | Cross-Tab Incoming Monitoring | Summary Monitoring | FTP *.in

Select Date : 7/7/47

Time : From :

☒ SA ☐ FT

WMO Bulletin :

Today: 8/7/47

Clear Display

จ.	อ.	พ.	พจ.	ศ.	ส.	อา.
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8



Example of Cross-tab Incoming Monitoring

1 of 2 100% Total:393 100% 393 of 393 **VTBBTES**

Cross-Tab Incoming Monitoring

Printed : 08/07/2004 3:50:38 From 06/07/2004 00:00:00 to 06/07

	SA												
	AS31 VTBB												
	VDPP	VLVT	VTBD	VTBU	VTCC	VTSP	VTSS	VVDN	VVNB	VVTS	VYMD	VYYY	
060800	-	*	*	-	RRA	*	RRB	*	*	-	-	-	
060830	*	*	*	*	RRC	RRA	*	*	RRB	*	-	*	
060900	-	*	*	-	RRA	*	*	*	*	*	-	-	
060930	*	*	*	*	*	*	RRA	*	*	*	-	*	
061000	-	*	*	-	*	*	*	*	*	-	-	-	
061030	*	*	*	*	*	*	*	*	-	*	-	*	
061100	-	*	*	-	*	*	*	*	*	*	-	-	
061130	-	*	*	*	*	*	*	*	*	*	-	*	
061200	-	*	*	-	*	*	*	*	*	*	-	-	
061230	-	-	*	*	*	*	*	*	*	*	-	*	
061300	-	-	*	-	*	*	*	*	*	*	-	-	
061330	-	-	*	*	*	*	*	*	*	*	-	*	
061400	-	-	*	-	*	-	*	*	*	*	-	-	
061430	-	-	*	*	*	*	*	*	*	*	-	*	
061500	-	-	*	-	*	*	*	*	*	*	-	-	
061530			*	*	*	*	*	*	*	*			

Start Metmonitor 3:55



Monitoring Summary

OPMET Data Bank Monitoring

OPMET Data Bank Monitoring

Incoming Messages Monitoring | Cross-Tab Incoming Monitoring | **Summary Monitoring** | FTP *.in

Select Date :

 Summary Input Statistics

 Summary Request Messages Information

 Summary ROBEX Rejection Messages

 Summary OPMET Rejection Messages

 Summary Bulletin Statistics

Data type Station



Example of Summary Input Statistics

Summary Input Statistics

Printed : 08/07/2004 3:59:43

Date : 07/07/2004

Data Type	Incoming
9 HR TAF (FC)	67
18/24 HR TAF (FT)	333
METAR (SA)	739
SPECI (SP)	137
Special AIREPs (UA)	6
SIGMET (WS)	17
Grand Total	1,299



Multiple Export Formats

Provide end users with reports in the format they prefer. Export reports to popular formats, including:

- ◆ MS Excel,
- ◆ XML,
- ◆ HTML,
- ◆ RTF,
- ◆ Word for Windows Document
- ◆ and more.



*Thank you for
your attention*

