



International  
Civil Aviation  
Organization

Organisation  
de l'aviation civile  
internationale

Organización  
de Aviación Civil  
Internacional

Международная  
организация  
гражданской  
авиации

منظمة الطيران  
المدني الدولي

国际民用  
航空组织

Ref. T3/10.0, T3/8.13.2 – AP038/10 (ATM)

08 March 2010

**Subject:** Regional Air Traffic Flow Management Survey

**Action required:** To reply by **30 April 2010**

Sir/Madam,

I have the honour to direct your attention to Conclusion 20/13 of the 20<sup>th</sup> Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/20, September 2009) held in Bangkok, Thailand, in respect to the Regional Air Traffic Flow Management (ATFM) Survey. You may recall that the outputs of the ATFM Seminar/Workshop (October 2008, Fukuoka) were presented to APANPIRG/20 as a series of six outcomes and five recommendations and, based on these, the meeting adopted the following Conclusions:

***Conclusion 20/11 – ATFM Steering Group and Concept of Operations***

*That a regional ATFM Steering Group be constituted and tasked with preparing an Asia/Pacific Regional ATFM Concept of Operations based on analysis of regional data and traffic flows. The ATFM Steering Group should consider the outcomes and recommendations from the October 2008 ATFM Seminar/Workshop (Fukuoka, Japan) and information about the CAR/SAM ATFM Project contained in IP/3 to APANPIRG/20 as guidance in deriving its Objectives and Terms of Reference.*

The meeting recognized the importance of providing information about the current status of ATFM in the region to the ATFM Steering Group and agreed to utilize the ATFM Survey Questionnaire that had been prepared by the ATM/AIS/SAR and the CNS/MET Sub-Groups based on the information from the Caribbean (CAR)/South America (SAM) ATFM Project. The meeting formulated the following Conclusion:

***Conclusion 20/13 – Conduct Regional ATFM Survey***

*That a survey of Asia/Pacific States be conducted based on the questionnaire at Appendix C to the APANPIRG/20 Report on Agenda Item 3.2, with the objective of benchmarking the current status of Air Traffic Flow Management (ATFM) activities in the Asia/Pacific Region.*

./2

Asia and Pacific Office  
252/1 Vibhavadi Rangsit Road  
Chatuchak  
Bangkok 10900  
Thailand

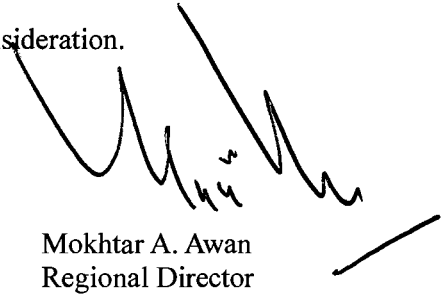
Postal Address:  
P.O. Box 11  
Samyaek Lat Phrao  
Bangkok 10901  
Thailand

Tel.: +66 (2) 537-8189  
Fax: +66 (2) 537-8199

E-mail: [icao\\_apac@bangkok.icao.int](mailto:icao_apac@bangkok.icao.int)  
AFTN: VTBBICOX

The Asia/Pacific ATFM Survey form is attached as **Attachment** hereto. It would be appreciated if you peruse the questionnaires, and feed back the reply to the Regional Office by **30 April 2010**. The result of the survey will be presented to the 20<sup>th</sup> Meeting of the ATM/AIS/SAR Sub-Group which is planned from 28 June to 2 July 2010 at ICAO Asia and Pacific Office.

Accept, Sir/Madam, the assurances of my highest consideration.



Mokhtar A. Awan  
Regional Director

**Attachment:**

Asia/Pacific Region Air Traffic Flow  
Management (ATFM) Survey Form

**Asia/Pacific Region  
Air Traffic Flow Management (ATFM) SURVEY**

**1. General**

1.1 The objective of this survey is to obtain information in order to learn about the current status of ATFM in Asia/Pacific States and Organizations with respect to:

- a) The methods for estimating airport and ATC capacity;
- b) ATFM procedures for the following phases;
  - Airport strategic;
  - Airport tactical;
  - Airspace strategic; and
  - Airspace tactical.
- c) Existing and planned equipment/infrastructure capable of supporting ATFM collaborative decision making (CDM), display and analysis; and
- d) related matters included meteorology (MET), AIS and map aspects related to ATFM provision.

1.2 This information will be beneficial in enabling APANPIRG to fulfil its overall planning and harmonizing objectives. Accordingly, APANPIRG/20 adopted Conclusion 20/13 calling for the conduct of a regional ATFM survey during 2010

1.3 Mark with an “X” the corresponding answer. Please include your comments, if you deem pertinent. If necessary, use additional sheets. As applicable, send copies of requested electronic documents to the ICAO Asia and Pacific Office [icao\\_apac@bangkok.icao.int](mailto:icao_apac@bangkok.icao.int)

1.4 Effective coordination with the relevant stakeholders should be made by the entity responsible for collating inputs for that State, (i.e. ensure that a copy of this questionnaire has been sent to the State’s MET authority as components of this survey depend on MET input and coordination with your MET authority in obtaining input for the relevant sections of the survey maybe necessary).

**2. Airport Capacity**

2.1 Does your administration (and/or State) currently have a method, whether basic or complex, for calculating airport capacity? If yes, please send an electronic copy of the methodology to [icao\\_apac@bangkok.icao.int](mailto:icao_apac@bangkok.icao.int)

YES

NO

2.2 If yes, please provide any available airport capacity data for your main airports in the following table. Please note that for this table:

Total Capacity = Airport Acceptance Rate (AAR) + Airport Departure Rate (ADR).

**ATTACHMENT**

Airport Name	Runway configuration	Airport Acceptance Rate (AAR)			Airport Departure Rate (ADR)	Total Capacity
		VFR	MVFR	IFR		

**Table 1**

Comments

---



---



---

**3. En-route Sector Capacity**

3.1 Does your administration (and/or State) currently have a method, whether basic or complex, for calculating enroute sector capacity? If yes, please send an electronic copy of the methodology to [icao\\_apac@bangkok.icao.int](mailto:icao_apac@bangkok.icao.int)

YES

NO

3.2 If yes, please provide any available airport capacity data for your main airports in the following table. Under the “Time Increments” column, please indicate if the sector capacity is computed by 15-minute increments, 60-minute increments, or some other increment.

ACC	Sector Name	Sector Altitudes	Sector Capacity	Time Increments

**Table 2**

Comments

---



---



---

**4. Procedures for Phases of ATFM**

4.1 Does your administration (and/or State) currently have procedures/arrangements in place to support the following phases of ATFM?

a) Airport Strategic

YES

NO

b) Airport Tactical

YES

NO

c) Airspace Strategic

YES

NO

d) Airspace Tactical

YES

NO

Comments

---

---

---

**5. Flow Management Data Processing and Display**

5.1 Does your administration (and/or State) have a system to receive, process, and display flight plan data (FPL, RPL, etc.)?

YES

NO

5.2 Does your administration (and/or State) have a database that includes airspace information (for example, ACC boundary coordinates, sector boundary coordinates, NAVAIDS, airways, special use airspace) and airport information (for example, runway and taxiway layout, ramp layout, parking gate information)?

YES

NO

5.3 Does your administration (and/or State) have an electronic ATFM system that displays airborne traffic?

YES

NO

5.4 Does your administration (and/or State) have a communication system that allows automated or manual exchange of messages to support ATFM decision making (for example, SLOT assignment messages, SLOT adjustment messages, delay reporting messages, alternate route messages)?

YES

NO

5.5 Does your administration (and/or State) have a system to monitor and display the airport acceptance rates (AAR) at the main airports?

YES

NO

5.6 Does your administration (and/or State) have a system to monitor and display enroute sector capacity?

YES

NO

5.7 Does your administration (and/or State) have a system to monitor and display the mix of aircraft using the airspace or airports?

YES

NO

**6. Surveillance Systems for ATFM Support**

6.1 In the following table, list the type of surveillance systems in use in your administration's (and/or State's) airspace structure.

ACC Surveillance System	TMA Surveillance System	Other Surveillance System

**Table 3**

**7. AIS/Map for ATFM Support**

7.1 On the following lines, list the AIS and map databases that your administration (and/or State) has available to support ATFM.

---

---

---

---

7.2 Are they available in an electronic format?

YES  NO

7.3 What is the routine AIS database update cycle?

28-DAY UPDATE  56-DAY UPDATE  OTHER

**8. Meteorological Information**

8.1 Provide the specific meteorological products and/or websites that your administration (and/or State) has available to support ATFM by checking the appropriate box.

TAF;  Trend;  METAR;  Local Report;

---

Real-time Sensor Data (e.g. RVR);  Weather Radar;  Satellite Imagery;

---

Surface Analysis Charts;  Surface Prognosis Charts;  SIGWX Chart;

---

Wind/temperature forecast Charts;  GRIB data (wind & temperature forecasts);

---

SIGMET;  Aerodrome warnings, wind shear warnings and alerts;

---

VA/TC Advisories;  Weather Briefing;  Others (please elaborate):

---

---

**ATTACHMENT**

8.2 List the MET products your facility considers operationally valuable (in order of most importance) to AFTM.

---

---

8.3 List the MET products your facility considers operationally insignificant (in order of least importance) to AFTM.

---

8.4 Does your facility use automated processes of gridded data?

---

8.5 If no to 8.4, does your facility plan to implement automated processes of gridded data (if yes, please indicated approximate date)?

---

**9. Data for Historical and Statistical Analysis**

9.1 On the following lines, list the type of databases (i.e. aircraft position data from ADS-B/radar, OPMET data, weather radar data...) your administration (and/or State) maintains to support the analysis of air traffic operations and meteorological activities.

---

---

---

**10. Communications capabilities for Collaborative Decision Making in ATFM**

10.1 List the types of communication systems (i.e. AFTN, Internet, dedicated data link, video/tele-conferencing...) your operational units already have or could straightforwardly have with:

(a) other centralized ATFM organizations

---

---

(b) other ATS units and/or Flight Management Units

---

---

**ATTACHMENT**

(c) operators and airspace users

---

---

(d) airport authorities

---

---

(e) meteorological authorities and/or aeronautical MET services

---

---

tick box if AFTM has a specialized meteorological support service

(f) aeronautical information services

---

---

(g) the transmission of radar and ADS data to the ATFM center

---

---

- END -