

GEN 3.4 COMMUNICATION SERVICES

1. **Responsible services**

The responsible service for the provision of telecommunication and navigation facility services in Thailand is Aeronautical Radio Of Thailand Limited.

Aeronautical Radio of Thailand Limited.

102 Ngamdu-plee, Tungmahamek

Bangkok 10120

Thailand

Tel: +662 287 3531-41

Fax: +662 287 3131

AFS: VTBBYTYX

The service is provided in accordance with the provisions contained in the following ICAO documents:

Annex 10	- Aeronautical Telecommunications
Doc 8400	- ICAO Abbreviations and Codes (PANS-ABC)
Doc 8585	- Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services
Doc 7030	- Regional Supplementary Procedures
Doc 7910	- Location Indicators

2. **Area of responsibility**

The Aeronautical Radio of Thailand Limited is responsible for the aeronautical telecommunication services operated in the Kingdom of Thailand purely for civil air transport. These services comprise the Aeronautical Fixed Service (point to point communications), the Aeronautical Mobile Service (air-ground communications), and the Aeronautical Radio Navigation owned and operated by the Airports of Thailand Public Company Limited but available to civil air transport, e.g. at Bangkok/don Mueang International Airport. The Aeronautical Radio of Thailand Limited (Aerothai) provides, operates and maintains the services and facilities for international air traffic within Bangkok FIR.

Enquiries, suggestions or complaints regarding any civil telecommunication service should be referred to the Director – General, The Civil Aviation Authority of Thailand, Bangkok and regarding any telecommunication facility or service at Bangkok/don Mueang International Airport, to the Managing Director, Airports of Thailand Public Company Limited.

3. **Types of services**3.1 **Radio Navigation Service**

The following types of radio aids for air navigation are available;

LF/MF Non-directional Beacon (NDB);
VHF Omni-directional Radio Range (VOR);
VHF Omni-directional Radio Range and Distance Measuring Equipment (VOR/DME);
Instrument Landing System (ILS); and
Primary and Secondary Surveillance Radar.

3.2 **Mobile/fixed service**– **Mobile service**

The aeronautical stations maintain a continuous watch on their stated frequencies during the published hours of service unless otherwise notified. An aircraft should normally communicate with the air-ground control station which exercises control in the area in which it is flying. Aircraft should maintain continuous watch on the appropriate frequency of the control station and should not abandon watch, except in an emergency, without informing the control radio station. The language used in air-ground communications with foreign aircraft is English.

– **Fixed Service**

Messages to be transmitted over the Aeronautical Fixed Service are accepted only if:

- they satisfy the requirements of Annex 10 Volume II Chapter 3 paragraph 3.3;
- they are prepared in the form specified in Annex 10 Volume II; and
- the text of an individual message does not exceed 1800 characters in length and AFTN message entered by the AFTN origin station shall not exceed 2100 characters in length.

General Aircraft Operating Agency messages are only accepted for transmission to countries which have agreed to accept Class "B" traffic. Charges for Class "B" traffic are published in GEN 4.2.

3.3 Broadcasting Service

Sub-area Meteorological Broadcasts (VOLMET Radiotelephony Broadcasts) are available for the use of aircraft in flight. Full details are given in GEN 3.5-3.

3.4 Aeronautical Fixed Services

The details of information on Aeronautical Fixed Services are given in GEN 3.4-3 to 3.4-9.

3.5 Language Used

English.

AERONAUTICAL FIXED SERVICES

AERONAUTICAL FIXED SERVICES - INTERNATIONAL AND DOMESTIC CIRCUIT*												
STATION			CORESPONDENT				NUMBER AND TYPE OF CHANNELS	TYPE OF LINK		TYPE OF NETWORK	HOURS (UTC)	REMARKS
Name	Location Indicator	Call Sign	Name	Call Sign		Link		Link				
1		3	4	5	6	7	8	9	10	11		
Bangkok ACC			Ho Chi Minh ACC	Ho Chi Minh	Satellite			ATS	H24			
			Kuala Lumpur ACC	Kuala Lumpur	Satellite			ATS	H24			
			Phnom Penh APP	Phnom Penh APP	Satellite			ATS	H24			
			Vientiane FIC	Vientiane	Satellite			ATS	H24			
			Yangon ACC	Yangon	Satellite			ATS	H24			
			Bangkok APP/TWR	Bangkok APP/ TWR	Line	Fiber Optic	Fiber Optic	ATS	H24			
			Hua Hin APP	Hua Hin APP	Satellite			ATS	2300-1100			
			Chiang Mai Sector	Chiang Mai Sector	Satellite			ATS	H24			
			Chiang Rai Sector	Chiang Rai Sector	Line	Cable	Cable	ATS	2330-1430			
			Hat Yai Sector	Hat Yai Sector	Satellite			ATS	H24			
			Khon Kaen Sector	Khon Kaen Sector	Line	Cable	Cable	ATS	2330-1430			
			Phitsanulok Sector	Phitsanulok Sector	Satellite			ATS	H24			
			Phuket Sector	Phuket Sector	Satellite			ATS	H24			
			Ubon sector	Ubon Sector	Line	Cable	Cable	ATS	2330-1430			
			Ubon sector	Ubon Sector	Line	Cable	Cable	ATS	2330-1430			
			Kamphaeng Saen APP	Kamphaeng Saen APP	Line	M / W	M / W	ATS	H24			
			Khorat APP	Khorat APP	Line	M / W	M / W	ATS	H24			
			Takhli APP	Takhli APP	Line	M / W	M / W	ATS	H24			
			U-Tapao APP	U-Tapao APP	Line	M / W	M / W	ATS	H24			

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AERONAUTICAL FIXED SERVICES - INTERNATIONAL AND DOMESTIC CIRCUIT*												
STATION			CORESPONDENT			NUMBER AND TYPE OF CHANNELS	TYPE OF LINK		TYPE OF NETWORK	HOURS (UTC)	REMARKS	
Name	Location Indicator	Call Sign	Name	Call Sign	Link		Link					
1	2	3	4	5	6	7	8	9	10	11		
BANGKOK Approach Control Centre (Chiang Rai Sector)			Chiang Rai TWR	Chiang Rai TWR	Satellite			ATS	2300-1430			
			Petchabun TWR	Petchabun TWR	Satellite				ATS	2300-1100		
			Phrae TWR	Phrae TWR	Satellite					ATS	2300-1100	
			Nan TWR	Nan TWR	Satellite					ATS	2300-1100	
			khon Kaen TWR	khon Kaen TWR	Satellite					ATS	2300-1430	
BANGKOK Approach Control Centre (Khon Kaen Sector)			Loei TWR	Loei TWR	Satellite			ATS	2300-1100			
			Nakhon Phanom TWR	Nakhon Phanom TWR	Satellite				ATS	2300-1100		
			Udon TWR	Udon TWR	Satellite					ATS	2300-1100	
			Chumphon TWR	Chumphon TWR	Satellite					ATS	2300-1430	
			Nakhon Si Thammarat TWR	Nakhon Si Thammarat TWR	Satellite					ATS	2300-1100	
BANGKOK Approach Control Centre (Samui Sector)			Samui TWR	Samui TWR	Satellite			ATS	2300-1100			
			Surat Thai TWR	Surat Thai TWR	Satellite				ATS	2300-1430		
			Trat TWR	Trat TWR	Satellite					ATS	H24	
			Buri Ram TWR	Buri Ram TWR	Satellite					ATS	2300-1100	
			Roi Et TWR	Roi Et TWR	Satellite					ATS	2300-1100	
BANGKOK Approach Control Centre (Ubon Sector)			Surin TWR	Surin TWR	Satellite			ATS	2300-1100			
			Nakhon Ratchasima TWR	Nakhon Ratchasima TWR	Satellite				ATS	2300-1100		
			Ubon TWR	Ubon TWR	Satellite					ATS	H24	

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STATION			CORESPONDENT			NUMBER AND TYPE OF CHANNELS	TYPE OF LINK		TYPE OF NETWORK	HOURS (UTC)	REMARKS
Name	Location Indicator	Call Sign	Name	Call Sign	Link		Link				
11		3	4	5	6	7	8	9	10	11	
Chiang Mai Approach Control Centre (Chiang Mai Sector)			Lampang TWR Mae Hong Son TWR Mae Sot TWR	Lampang TWR Mae Hong Son TWR Mae Sot TWR	Satellite Satellite Satellite			ATS ATS ATS	2300-1100 2300-1100 2300-1100		
Hat Yai Approach Control Centre (Hat Yai Sector)			Pattani TWR Narathiwat TWR Trang TWR	Pattani TWR Narathiwat TWR Trang TWR	Satellite Satellite Satellite			ATS ATS ATS	* 2300-1100 2300-1100	*Available on request 3 HRS	
Phitsanulok Approach Control Centre (Phitsanulok Sector)			Sukhothai TWR Tak TWR	Sukhothai TWR Tak TWR	Satellite Satellite			ATS ATS	2300-1100 *	*Available on request 3 HRS	
Phuket Approach Control Centre (Phuket Sector)			Krabi TWR Ranong TWR	Krabi TWR Ranong TWR	Satellite Satellite			ATS ATS	2300-1100 2300-1100		

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STATION			CORESPONDENT			NUMBER AND TYPE OF CHANNELS	TYPE OF LINK		TYPE OF NETWORK	HOURS (UTC)	REMARKS
Name	Location Indicator	Call Sign	Name	Call Sign	Link		Link				
1	2	3	4	5	6	7	8	9	10	11	
BANGKOK	VTBB		Mumbai		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		
			Hong Kong		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		
			Yangon		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		
			Kuala Lumpur		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		
			Vientiane		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24	International Circuits	
			Singapore		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24	Aerothai	
			Dhaka		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		
			Ho Chi Minh		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		
			Phnom Penh		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		
			Rome		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		
			Beijing		LTT DX	Sub Marine Cable	Sub Marine Cable	AFTN	H24		

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AERONAUTICAL FIXED SERVICES - INTERNATIONAL AND DOMESTIC CIRCUIT*												
STATION			CORESPONDENT			NUMBER AND TYPE OF CHANNELS	TYPE OF LINK		TYPE OF NETWORK	HOURS (UTC)	REMARKS	
Name	Location Indicator	Call Sign	Name	Call Sign	Link		Link					
1		3	4	5	6	7	8	9	10	11		
BANGKOK	VTBB		Chiang Mai		LTT DX	Satellite	Satellite	ATN	H24			
			Hat Yai		LTT DX	Satellite	Satellite	ATN	H24			
			Phuket		LTT DX	Satellite	Satellite	ATN	H24			
			Lampang		LTT DX	Satellite	Satellite	ATN	2300-1100			
			Phitsanulok		LTT DX	Satellite	Satellite	ATN	2300-1100	Domestic Circuits		
			Surat Thani		LTT DX	Satellite	Satellite	ATN	H24			
			Ubon Ratchathani		LTT DX	Satellite	Satellite	ATN	2300-1430	Aerofhai		
			Nakhon Ratchasima		LTT DX	Satellite	Satellite	ATN	2300-1100			
			Chiang Rai		LTT DX	Satellite	Satellite	ATN	2300-1430			
			Mae Hong Son		LTT DX	Satellite	Satellite	ATN	2300-1100			
			Nan		LTT DX	Satellite	Satellite	ATN	2300-1100			
			Phare		LTT DX	Satellite	Satellite	ATN	2300-1100			
			Nakhon Si Thammarat		LTT DX	Satellite	Satellite	ATN	2300-1100			
			Narathiwat		LTT DX	Satellite	Satellite	ATN	2300-1100			

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Name	STATION		CORRESPONDENT			NUMBER AND TYPE OF CHANNELS	TYPE OF LIND		TYPE OF NETWORK	HOURS (UTC)	REMARKS
	Location Indicator	Call Sign	Name	Call Sign	Link		Link				
1	2	3	4	5	6	7	8	9	10	11	
BANGKOK	VTBB		Ranong		LTT DX	Satellite	Satellite	ATN	2300-1100		
			Trang		LTT DX	Satellite	Satellite	ATN	2300-1100		
			Mae Sot		LTT DX	Satellite	Satellite	ATN	2300-1100		
			Hua Hin		LTT DX	Satellite	Satellite	ATN	2300-1100		
			Khon Kaen		LTT DX	Satellite	Satellite	ATN	2300-1100		
			Sakhon Nakhon		LTT DX	Satellite	Satellite	ATN	2300-1100		
			Udon Thani		LTT DX	Satellite	Satellite	ATN	2300-1100		
			U-Tapao		LTT DX	Leased Line	Leased Line	ATN	H24		
			Sukhothai		LTT DX	Satellite	Satellite	ATN	2330-1100		
			Samui		LTT DX	Satellite	Satellite	ATN	2330-1430		
			Sapran Nak		LTT DX	Leased Line	Leased Line	ATN	000-1000		
			Kamphaeng Saen		LTT DX	Satellite	Satellite	ATN	0000-0900		
			Nakhon Sawan		LTT DX	Satellite	Satellite	ATN	0000-1000		
			Krabi		LTT DX	Satellite	Satellite	ATN	0100-1300		
			Phetchabun		LTT DX	Satellite	Satellite	ATN	2300-1100		

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Name	Location Indicator	Call Sign	Name	Call Sign		Link	Link			
1		3	4	5	6	7	8	9	10	11
BANGKOK	VTBB		Roi Et Trat		LTT DX LTT DX	Satellite Satellite	Satellite Satellite	ATN ATN	2300-1100 2300-1100	

4. **Requirements and conditions**

NIL

5. **Miscellaneous**

NIL