

GEN 3.4 COMMUNICATION AND NAVIGATION SERVICES**1. Responsible services**

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

Aeronautical Radio of Thailand Ltd.

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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
Doc 9880	- Technical Specifications for ATN using ISO/OSI Standards and Protocols

2. Area of responsibility

Aeronautical Radio of Thailand Ltd. is responsible for the aeronautical telecommunication services and navigation services operated within Bangkok FIR.

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

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

- Non-directional Beacon (NDB);
- VHF Omni-directional Radio Range (VOR);
- Distance Measuring Equipment (DME); and
- Instrument Landing System (ILS)

3.2 Aeronautical Mobile/Fixed Service**– Aeronautical Mobile Service (Voice Communications)**

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.

– Aeronautical Fixed Service (Voice Communications)

ATS direct speech circuit (telephone circuit) is provided for direct exchange of information between air traffic services (ATS) units. The detail of information on Aeronautical Fixed Services (Voice Communications) are given in GEN 3.4, TABLE COM-1

– Aeronautical Fixed Service (Data Communications)

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

- a) they satisfy the requirements of Annex 10 Volume II Chapter 3 paragraph 3.3;
- b) they are prepared in the form specified in Annex 10 Volume II; and
- c) 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.

The detail of information on Aeronautical Fixed Services (Data Communications) are given in GEN 3.4, TABLE COM-2

3.3 Broadcasting Service

- Automatic terminal information service (ATIS), the automatic provision of current and routine information to arriving and departing aircraft is provided.
- Sub-area Meteorological Broadcasts (VOLMET Radiotelephony Broadcasts) are available for the use of aircraft in flight. Full details are given in GEN 3.5, Table GEN 3.5.7.

3.4 Language Used

English

3.5 Miscellaneous

TABLE COM - 1
AERONAUTICAL FIXED SERVICES (VOICE COMMUNICATIONS) - INTERNATIONAL AND DOMESTIC CIRCUIT

STATION		CORRESPONDENT		TYPE OF CHANNELS	TYPE OF SERVICE	HOURS (UTC)	REMARKS		
1	2	3	4	5	6	7	8		
Bangkok ACC	Bangkok Control	Ho Chi Minh ACC	Ho Chi Minh Control	LTF	ATS	H24			
		Kuala Lumpur ACC	Lumpur Control	LTF	ATS	H24			
		Phnom Penh ACC	Phnom Penh Control	LTF	ATS	H24			
		Vientiane FIC	Vientiane Control	LTF	ATS	H24			
		Yangon ACC	Yangon Control	LTF	ATS	H24			
		Bangkok APP	Bangkok APP	LTF	ATS	H24			
		Bangkok/Suvarnabhumi TWR	Suvarnabhumi TWR	LTF	ATS	H24			
		Bangkok/Don Mueang TWR	Don Mueang TWR	LTF	ATS	H24			
		Chiang Mai APP	Chiang Mai APP	LTF	ATS	H24			
		Chiang Mai Sector	Lampang APP	LTF	ATS	H24			
			Mae Hong Son/Mae Sot APP	LTF	ATS	H24			
		Chiang Rai Sector	Chiang Rai APP	LTF	ATS	As AD OPR HR			
			Phetchabun APP	LTF	ATS	As AD OPR HR			
			Phrae APP	LTF	ATS	As AD OPR HR			
		Pitsanulok APP	Nan APP	LTF	ATS	As AD OPR HR			
			Pitsanulok APP	LTF	ATS	As AD OPR HR			
		Pitsanulok Sector	Sukothai APP	LTF	ATS	As AD OPR HR			
			Tak APP	LTF	ATS	As AD OPR HR			
		Khon Kaen Sector	Khon Kaen APP	LTF	ATS	As AD OPR HR			
			Loei APP	LTF	ATS	As AD OPR HR			
			Nakhon Phanom APP	LTF	ATS	As AD OPR HR			
			Udon APP	LTF	ATS	As AD OPR HR			
		Ubon Sector	Sakon Nakhon APP	LTF	ATS	As AD OPR HR			
			Buri Ram APP	LTF	ATS	As AD OPR HR			
			Roi Et APP	LTF	ATS	As AD OPR HR			
			Nakhon Ratchasima APP	LTF	ATS	As AD OPR HR			
			Ubon APP	LTF	ATS	As AD OPR HR			
		Hua Hin APP	Hua Hin APP	LTF	ATS	2300-1100			
		Samui Sector	Samui APP	LTF	ATS	As AD OPR HR			
			Nakhon Si Thammarat APP	LTF	ATS	As AD OPR HR			
			Chumphon APP	LTF	ATS	As AD OPR HR			
			Surat Thani APP	LTF	ATS	As AD OPR HR			
		Phuket App	Trat APP	LTF	ATS	As AD OPR HR			
			Phuket APP	LTF	ATS	H24			
		Phuket Sector	Ranong APP	LTF	ATS	As AD OPR HR			
			Krabi APP	LTF	ATS	H-24			
		Hat Yai APP	Hat Yai APP	LTF	ATS	H24			
			Pattani APP	LTF	ATS	2300-1130			
		Hat Yai Sector	Narathiwat APP	LTF	ATS	2300-1130			
			Trang APP	LTF	ATS	2300-1130			
			U-Tapao APP	U-Tapao APP	LTF	ATS	H24		
		Chiang Rai Sector	Chiang Rai APP	Bangkok ACC	Bangkok Control	LTF	ATS	H24	
				Chiang Rai TWR	Chiang Rai TWR	LTF	ATS	As AD OPR HR	
				Pitsanulok APP	Pitsanulok APP	LTF	ATS	As AD OPR HR	
Chiang Mai APP	Chiang Mai APP			LTF	ATS	H24			
Chiang Mai Sector	Lampang APP			LTF	ATS	As AD OPR HR			
Pitsanulok TWR	Pitsanulok TWR			LTF	ATS	0000-1200			
Khon Kaen Sector	Khon Kaen APP			LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Udon APP			LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Loei APP			LTF	ATS	As AD OPR HR			
Phetchabun APP	Bangkok ACC			Bangkok Control	LTF	ATS	H24		
	Phetchabun TWR			Phetchabun TWR	LTF	ATS	As AD OPR HR		
	Pitsanulok APP			Pitsanulok APP	LTF	ATS	H24		
	Chiang Mai APP			Chiang Mai APP	LTF	ATS	H24		
	Chiang Mai Sector			Lampang APP	LTF	ATS	As AD OPR HR		
	Pitsanulok TWR		Pitsanulok TWR	LTF	ATS	As AD OPR HR			
	Khon Kaen Sector		Khon Kaen APP	LTF	ATS	As AD OPR HR			
	Khon Kaen Sector		Udon APP	LTF	ATS	As AD OPR HR			
	Khon Kaen Sector		Loei APP	LTF	ATS	As AD OPR HR			
	Phrae APP		Bangkok ACC	Bangkok Control	LTF	ATS	H24		
Phrae TWR			Phrae TWR	LTF	ATS	As AD OPR HR			
Pitsanulok APP			Pitsanulok APP	LTF	ATS	H24			
Chiang Mai APP			Chiang Mai APP	LTF	ATS	H24			
Chiang Mai Sector			Lampang APP	LTF	ATS	As AD OPR HR			
Pitsanulok TWR			Pitsanulok TWR	LTF	ATS	As AD OPR HR			
Khon Kaen Sector			Khon Kaen APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector			Udon APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector			Loei APP	LTF	ATS	As AD OPR HR			
Nan APP			Bangkok ACC	Bangkok Control	LTF	ATS	H24		
	Nan TWR		Nan TWR	LTF	ATS	As AD OPR HR			
	Pitsanulok APP		Pitsanulok APP	LTF	ATS	H24			
	Chiang Mai APP		Chiang Mai APP	LTF	ATS	H24			
	Chiang Mai Sector		Lampang APP	LTF	ATS	As AD OPR HR			
	Pitsanulok TWR		Pitsanulok TWR	LTF	ATS	As AD OPR HR			
	Khon Kaen Sector		Khon Kaen APP	LTF	ATS	As AD OPR HR			
	Khon Kaen Sector		Udon APP	LTF	ATS	As AD OPR HR			
	Khon Kaen Sector		Loei APP	LTF	ATS	As AD OPR HR			
	Khon Kaen Sector		Khon Kaen APP	Bangkok ACC	Bangkok Control	LTF	ATS	H24	
Vientiane FIC				Vientiane Control	LTF	ATS	H24		
Vientiane TWR				Vientiane TWR	LTF	ATS	H24		
Vientiane APP				Vientiane APP	LTF	ATS	H24		
Khon Kaen TWR				Khon Kaen TWR	LTF	ATS	As AD OPR HR		
Pitsanulok APP				Pitsanulok APP	LTF	ATS	H24		
Ubon Sector				Buri Ram APP	LTF	ATS	As AD OPR HR		
Ubon Sector				Roi Et APP	LTF	ATS	As AD OPR HR		
Ubon Sector		Nakhon Ratchasima APP		LTF	ATS	As AD OPR HR			
Ubon Sector		Ubon APP		LTF	ATS	As AD OPR HR			
Chiang Rai Sector		Phetchabun APP		LTF	ATS	As AD OPR HR			
Loei APP		Bangkok ACC		Bangkok Control	LTF	ATS	H24		
		Vientiane FIC	Vientiane Control	LTF	ATS	H24			
		Vientiane TWR	Vientiane TWR	LTF	ATS	H24			
		Vientiane APP	Vientiane APP	LTF	ATS	H24			
		Loei TWR	Loei TWR	LTF	ATS	As AD OPR HR			
		Pitsanulok APP	Pitsanulok APP	LTF	ATS	H24			
		Ubon Sector	Buri Ram APP	LTF	ATS	As AD OPR HR			
		Ubon Sector	Roi Et APP	LTF	ATS	As AD OPR HR			
		Ubon Sector	Nakhon Ratchasima APP	LTF	ATS	As AD OPR HR			
		Ubon Sector	Ubon APP	LTF	ATS	As AD OPR HR			
		Chiang Rai Sector	Phetchabun APP	LTF	ATS	As AD OPR HR			
		Udon APP	Udon TWR	Udon TWR	LTF	ATS	As AD OPR HR		
Vientiane FIC			Vientiane Control	LTF	ATS	H24			
Vientiane TWR	Vientiane TWR		LTF	ATS	H24				
Vientiane APP	Vientiane APP		LTF	ATS	H24				
Pitsanulok APP	Pitsanulok APP		LTF	ATS	H24				
Bangkok ACC	Bangkok Control		LTF	ATS	H24				
Ubon Sector	Buri Ram APP		LTF	ATS	As AD OPR HR				
Ubon Sector	Roi Et APP		LTF	ATS	As AD OPR HR				

AERONAUTICAL FIXED SERVICES (VOICE COMMUNICATIONS) - INTERNATIONAL AND DOMESTIC CIRCUIT

STATION		CORRESPONDENT		TYPE OF CHANNELS	TYPE OF SERVICE	HOURS (UTC)	REMARKS
NAME	CALL SIGN	NAME	CALL SIGN				
1	2	3	4	5	6	7	8
Khon Kaen Sector	Udon APP	Ubon Sector	Nakhon Ratchasima APP	LTF	ATS	As AD OPR HR	
		Ubon Sector	Ubon APP	LTF	ATS	As AD OPR HR	
	Sakon Nakhon APP	Chiang Rai Sector	Phetchabun APP	LTF	ATS	As AD OPR HR	
		Bangkok ACC	Bangkok Control	LTF	ATS	H24	
		Nakhon Phanom TWR	Nakhon Phanom TWR	LTF	ATS	As AD OPR HR	
		Sakon Nakhon TWR	Sakon Nakhon TWR	LTF	ATS	As AD OPR HR	
		Vientiane FIC	Vientiane Control	LTF	ATS	H24	
		Vientiane TWR	Vientiane TWR	LTF	ATS	H24	
		Vientiane APP	Vientiane APP	LTF	ATS	H24	
		Pitsanulok APP	Pitsanulok APP	LTF	ATS	H24	
		Ubon Sector	Buri Ram APP	LTF	ATS	As AD OPR HR	
		Ubon Sector	Roi Et APP	LTF	ATS	As AD OPR HR	
		Ubon Sector	Nakhon Ratchasima APP	LTF	ATS	As AD OPR HR	
		Ubon Sector	Ubon APP	LTF	ATS	As AD OPR HR	
		Chiang Rai Sector	Phetchabun APP	LTF	ATS	As AD OPR HR	
		Bangkok ACC	Bangkok Control	LTF	ATS	H24	
		Chumphon TWR	Chumphon TWR	LTF	ATS	As AD OPR HR	
		Hua Hin TWR	Hua Hin TWR	LTF	ATS	2300-1100	
		Hat Yai App	Hat Yai App	LTF	ATS	H24	
		Phuket App	Phuket App	LTF	ATS	H24	
Phuket Sector	Krabi APP	LTF	ATS	H24			
Phuket Sector	Ranong APP	LTF	ATS	As AD OPR HR			
U-Tapao TWR	U-Tapao TWR	LTF	ATS	H24			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Nakhon Si Thammarat TWR	Nakhon Si Thammarat TWR	LTF	ATS	As AD OPR HR			
Hua Hin TWR	Hua Hin TWR	LTF	ATS	2300-1100			
Hat Yai App	Hat Yai App	LTF	ATS	H24			
Phuket App	Phuket App	LTF	ATS	H24			
Phuket Sector	Krabi APP	LTF	ATS	H24			
Phuket Sector	Ranong APP	LTF	ATS	As AD OPR HR			
U-Tapao TWR	U-Tapao TWR	LTF	ATS	H24			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Samui TWR	Samui TWR	LTF	ATS	As AD OPR HR			
Hua Hin TWR	Hua Hin TWR	LTF	ATS	2300-1100			
Hat Yai App	Hat Yai App	LTF	ATS	H24			
Phuket App	Phuket App	LTF	ATS	H24			
Phuket Sector	Krabi APP	LTF	ATS	H24			
Phuket Sector	Ranong APP	LTF	ATS	As AD OPR HR			
U-Tapao TWR	U-Tapao TWR	LTF	ATS	H24			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Surat Thani TWR	Surat Thani TWR	LTF	ATS	As AD OPR HR			
Hua Hin TWR	Hua Hin TWR	LTF	ATS	2300-1100			
Hat Yai App	Hat Yai App	LTF	ATS	H24			
Phuket App	Phuket App	LTF	ATS	H24			
Phuket Sector	Krabi APP	LTF	ATS	H24			
Phuket Sector	Ranong APP	LTF	ATS	As AD OPR HR			
U-Tapao TWR	U-Tapao TWR	LTF	ATS	H24			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Trat TWR	Trat TWR	LTF	ATS	As AD OPR HR			
Hua Hin TWR	Hua Hin TWR	LTF	ATS	2300-1100			
Phuket App	Phuket App	LTF	ATS	H24			
Phuket Sector	Krabi APP	LTF	ATS	H24			
Phuket Sector	Ranong APP	LTF	ATS	As AD OPR HR			
Hat Yai App	Hat Yai App	LTF	ATS	H24			
U-Tapao TWR	U-Tapao TWR	LTF	ATS	H24			
Pakse TWR	Pakse TWR	LTF	ATS	H24			
Vientiane FIC	Vientiane Control	LTF	ATS	H24			
Buri Ram TWR	Buri Ram TWR	LTF	ATS	As AD OPR HR			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Khon Kaen Sector	Khon Kaen APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Udon APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Sakon Nakhon APP	LTF	ATS	As AD OPR HR			
Pakse TWR	Pakse TWR	LTF	ATS	H24			
Vientiane FIC	Vientiane Control	LTF	ATS	H24			
Roi Et TWR	Roi Et TWR	LTF	ATS	As AD OPR HR			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Khon Kaen Sector	Khon Kaen APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Udon APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Sakon Nakhon APP	LTF	ATS	As AD OPR HR			
Pakse TWR	Pakse TWR	LTF	ATS	H24			
Vientiane FIC	Vientiane Control	LTF	ATS	H24			
Nakhon Ratchasima TWR	Nakhon Ratchasima TWR	LTF	ATS	As AD OPR HR			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Khon Kaen Sector	Khon Kaen APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Udon APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Sakon Nakhon APP	LTF	ATS	As AD OPR HR			
Pakse TWR	Pakse TWR	LTF	ATS	H24			
Vientiane FIC	Vientiane Control	LTF	ATS	H24			
Ubon TWR	Ubon TWR	LTF	ATS	As AD OPR HR			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Khon Kaen Sector	Khon Kaen APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Udon APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Sakon Nakhon APP	LTF	ATS	As AD OPR HR			
Pakse TWR	Pakse TWR	LTF	ATS	H24			
Vientiane FIC	Vientiane Control	LTF	ATS	H24			
Ubon TWR	Ubon TWR	LTF	ATS	As AD OPR HR			
Bangkok ACC	Bangkok Control	LTF	ATS	H24			
Khon Kaen Sector	Khon Kaen APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Udon APP	LTF	ATS	As AD OPR HR			
Khon Kaen Sector	Sakon Nakhon APP	LTF	ATS	As AD OPR HR			
Lampang APP	Lampang TWR	LTF	ATS	0030-1100			
Mae Hong Son APP	Mae Hong Son TWR	LTF	ATS	2300-1100			
Mae Sot APP	Mae Sot TWR	LTF	ATS	2300-1100			
Pattani APP	Pattani TWR	LTF	ATS	2300-1130*	*Outside this period 1 HR PN to Hat Yai APP		
Narathiwat APP	Narathiwat TWR	LTF	ATS	2300-1100			
Trang APP	Trang TWR	LTF	ATS	2300-1100			
Narathiwat APP	Betong TWR	LTF	ATS	0130-0930			
Sukhothai APP	Sukhothai TWR	LTF	ATS	2300-1100			
Tak APP	Tak TWR	Tak TWR	Tak TWR	LTF	ATS	As AD OPR HR*	*Available on request 3 hours notice required in - advance to Phisanulok Approach Control centre
Krabi APP	Krabi TWR	Krabi TWR	Krabi TWR	LTF	ATS	H24	
Ranong APP	Ranong TWR	Ranong TWR	Ranong TWR	LTF	ATS	2300-1100	

TABLE COM - 2
AERONAUTICAL FIXED SERVICES (DATA COMMUNICATIONS) - INTERNATIONAL AND DOMESTIC CIRCUIT

STATION		CORRESPONDENT		TYPE OF CHANNELS	TYPE OF SERVICE	HOURS (UTC)	REMARKS
NAME	CALL SIGN	NAME	CALL SIGN				
1	2	3	4	5	6	7	8
Bangkok (VTBB)	-	Mumbai	-	LDD	AMHS	H24	
		Hong Kong	-	LDD	AMHS	H24	
		Yangon	-	LDD	AMHS	H24	
		Kuala Lumpur	-	LDD	AMHS	H24	
		Vientiane	-	LDD	AMHS	H24	
		Singapore	-	LDD	AMHS	H24	
		Dhaka	-	LDD	AMHS	H24	
		Ho Chi Minh	-	LDD	AFTN	H24	
		Phnom Penh	-	LDD	AMHS	H24	
		Rome	-	LDD	AMHS	H24	
		Beijing	-	LDD	AMHS	H24	
		Paro	-	LDD	AMHS	H24	
		Bangkok/ Don Mueang International Airport	-	LDD	AFTN	H24	
		Chiang Mai/ Chiang Mai International Airport	-	LDD	AFTN	H24	
		Chiang Rai/ Mae Fah Luang-Chiang Rai International Airport	-	LDD	AFTN	H24	
		Phuket/ Phuket International Airport	-	LDD	AFTN	H24	
		Bangkok/ Suvarnabhumi International Airport	-	LDD	AFTN	H24	
		Rayong/ U-Tapao Rayong Pattaya International Airport	-	LDD	AFTN	H24	
		Songkhla/ Hat Yai International Airport	-	LDD	AFTN	H24	
		Buri Ram Airport	-	LDD	AFTN	H24	
		Chumphon	-	LDD	AFTN	H24	
		Khon Kaen	-	LDD	AFTN	H24	
		Krabi	-	LDD	AFTN	H24	
		Lampang	-	LDD	AFTN	H24	
		Loei	-	LDD	AFTN	H24	
		Lop Buri/ Sa Pran Nak	-	LDD	AFTN	H24	
		Mae Hong Son	-	LDD	AFTN	H24	
		Nakhon Phanom	-	LDD	AFTN	H24	
		Nakhon Ratchasima	-	LDD	AFTN	H24	
		Nakhon Sawan	-	LDD	AFTN	H24	
		Nakhon Si Thammarat	-	LDD	AFTN	H24	
		Nan/ Nan Nakhon	-	LDD	AFTN	H24	
		Narathiwat	-	LDD	AFTN	H24	
		Phetchabun	-	LDD	AFTN	H24	
		Phitsanulok	-	LDD	AFTN	H24	
		Phrae	-	LDD	AFTN	H24	
		Prachuap Khiri Khan/ Hua Hin	-	LDD	AFTN	H24	
		Ranong	-	LDD	AFTN	H24	
		Roi Et	-	LDD	AFTN	H24	
		Sakon Nakhon/ Ban Khai	-	LDD	AFTN	H24	
		Songkhla	-	LDD	AFTN	H24	
		Sukhothai	-	LDD	AFTN	H24	
		Surat Thani	-	LDD	AFTN	H24	
		Surat Thani/ Samui	-	LDD	AFTN	H24	
		Tak/ Mae Sot	-	LDD	AFTN	H24	
		Trang	-	LDD	AFTN	H24	
		Trat/ Khao Sming	-	LDD	AFTN	H24	
		Ubon Ratchathani	-	LDD	AFTN	H24	
		Udon Thani	-	LDD	AFTN	H24	
		Yala/ Betong	-	LDD	AFTN	H24	

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