

GEN 3.4 COMMUNICATIONS SERVICES

1. 책임업무

대한민국의 민간항공통신 및 항행안전시설에 대한 책임기관은 국토교통부 항공정책실이다.

국토교통부 항공정책실

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항공고정통신망 : RKSLYAYX

Website : <http://www.molit.go.kr>

2. 관할구역

대한민국 민간항공통신 책임관할구역은 인천 비행정보구역으로 한다.

3. 제공되는 업무

3.1 항공고정업무

항공기 안전운항 등에 필요한 전문을 항공고정국 상호간에 교환하기 위한 통신 업무(Operational hours : H24)이다.

a. 국제항공고정통신망(AFTN)

- (1) 국제항공고정통신망 회선도는 GEN 3.4.3.5와 같다.
- (2) 국제항공고정통신망 운영절차는 원칙적으로 국제민간항공기구 부속서 10, 제2권을 적용한다.

b. 국내항공고정통신망

- (1) 국내항공고정통신망 회선도는 GEN 3.4.3.5와 같다.
- (2) 국내항공고정통신망 운영절차는 원칙적으로 국제민간항공기구 부속서 10, 제2권을 적용한다.

3.2 항공이동업무

항공국과 항공기국 사이에 주로 항공교통관제업무, 항공로 정보제공업무 등을 무선전화에 의해 행하는 통신 업무이다.

a. 청취 및 운용시간

항공국은 3.4.3.2.e에 공시된 업무시간 및 주파수로 청취를 계속하여야 한다.
비행중인 항공기국은 항공국의 주파수로 청취를 계속하여야 하며, 비상시를 제외하고는 항공국에 사전 통보 없이 청취를 중단해서는 안 된다.

1. Responsible Service

The responsible authority for the provision of civil aeronautical telecommunication and navigation facility services in the Republic of Korea is Office of Civil Aviation, Ministry of Land, Infrastructure and Transport.

Office of Civil Aviation

Ministry of Land, Infrastructure and Transport

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AFS : RKSLYAYX

Website : <http://www.molit.go.kr>

2. Area of Responsibility

Area responsible for civil aeronautical telecommunication in the Republic of Korea is the same as Incheon FIR.

3. Types of service

3.1 Aeronautical Fixed Service

This service is provided for the interchange of message between aeronautical fixed stations, which is related to the safety of air navigation and to the regular, efficient and economical operation of air services.(Operational hours : H24)

a. Aeronautical Fixed Telecommunication Network(AFTN)

- (1) International AFTN circuits are illustrated in GEN 3.4.3.5.
- (2) International AFTN operations are applied in principle to the communication procedures of ICAO Annex 10, Volume II.

b. Domestic Aeronautical Fixed Telecommunication Network

- (1) Domestic Aeronautical Fixed Telecommunication Network circuits are illustrated in GEN 3.4.3.5.
- (2) Domestic AFTN operations are applied in principle to the communication procedures of ICAO Annex 10, Volume II.

3.2 Aeronautical Mobile Service

This service is provided mainly to meet the requirements of the air traffic control service, aeronautical en-route information service and so forth by radio telephone between an A/G station and aircraft station.

a. Watch and hours of service

An aeronautical station in the mobile service should maintain continuous watch as hours of service and frequencies listed in 3.4.3.2.e. During its flight, an aircraft should maintain continuous watch as required by the aeronautical station and not cease watch, except for an emergency without informing the aeronautical station concerned.

- b. 통신의 설정
항공기국은 자국이 비행하고 있는 지역의 항공교통관제를 담당하는 항공국과 통신하여야 한다.
- c. 전문의 취급
서울 라디오에 의해 항공기국으로부터 수신된 정보는 AFTN 전문형식으로 항공사 또는 관련부처에 송달된다.
- d. 사용언어
공지통신에서 사용하는 언어는 통상 한국어나 영어를 사용한다.
- e. 서울라디오
국토교통부 관할 하에 운영되고 있는 서울라디오는 항공교통관제기관과 항공기 사이에 중요한 중계역할을 담당하고 있다. 그밖에 서울라디오는 항공고시보, 기상등과 같은 정보를 비행중인 항공기에 제공하며, 항공교통관제기관이 미치지 않는 지역에서의 위치보고, AIREP을 항공기로부터 수신하여 관련부처로 송달한다. 서울라디오의 사용주파수는 다음과 같다.(인천국제공항 지역에서의 1차주파수는 8903 kHz를 사용한다.)

- b. Establishment of communications
An aircraft should normally communicate with the air ground control radio stations which exercise air traffic control in the area in which it is flying.
- c. Messages handling
Information received from an aircraft by SEOUL Radio is transmitted in the form of AFTN message to the aircraft operating agency or the post concerned.
- d. Language to be used
Language normally used in the air ground radio telephony communications should be either Korean or English.
- e. SEOUL Radio
SEOUL Radio which is operated under the jurisdiction of The Ministry of Land, Infrastructure and Transport is in charge of a valuable link between ATC and an aircraft. Besides, such informations as NOTAM, weather and the like are given to an aircraft during its flight by SEOUL Radio, and SEOUL Radio receives position report and AIREP from an aircraft in the area beyond reaching of ATC authority and the above mentioned informations are transmitted to the post concerned. Frequencies of SEOUL Radio are as follows.(8903 kHz is used as a primary frequency within Incheon INTL Airport.)

Call sign	Frequencies	Hours of Operation	Remarks
SEOUL Radio	127.1 MHz, 3004 kHz, 4687 kHz, 6532 kHz, 8903 kHz, 10072 kHz, 13300 kHz, 13303 kHz, 13333 kHz, 17904 kHz, 17916 kHz	H24	MET Available

- f. 조종사는 항공교통관제기관 및 서울라디오와 긴밀한 협조를 통해 비행 중에 필요한 협력을 얻도록 한다.

- f. A pilot will find ready help and cooperation during its flight working in close harmony with ATC and SEOUL Radio.

3.3 항행안전무선업무

이용할 수 있는 항행안전무선시설은 다음과 같다.

- 무지향표지시설(NDB);
- 전방향표지시설(VOR);
- 거리측정시설(DME);
- 계기착륙시설(ILS);
- 레이더(RADAR);
- 전술항행표지시설(TACAN);
- 지상유도접근시설(GCA) : 지상유도접근시설을 사용하고자 하는 항공기는 사용채널에 대한 해당 항공교통관제기관으로부터 지시를 받아야 한다.

3.3 Radio Navigation Service

The following of radio aids are available for air navigation.

- Non-Directional radio Beacon(NDB);
- VHF Omni-directional Range(VOR);
- Distance Measuring Equipment(DME);
- Instrument Landing System(ILS);
- Radio Detection and Ranging(RADAR);
- Tactical Air Navigation(TACAN);
- Ground Controlled Approach(GCA) : Aircraft about to use GCA will receive instructions from appropriate ATC facility as to the channel to be used.

3.4 적용할 수 있는 ICAO 서류

적용할 수 있는 국제민간항공기구 표준과 권고방식 및 절차는 아래 도서내용에 포함되어 있다.

- 부속서 제10권 - 항공통신
- Doc 8400 - 약어 및 부호
- Doc 8585 - 항공업무기관 및 항공사 약어명
- Doc 7910 - 지명약어

3.4 Applicable ICAO Documents

Applicable ICAO Standards, Recommended Practices and Procedures are contained in the following documents.

- ANNEX 10 - Aeronautical Telecommunications
- Doc 8400 - ICAO Abbreviations and Codes
- Doc 8585 - Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services
- Doc 7910 - Location Indicators

3.5 ATN / AFTN CIRCUIT

BEIJING COM CENTER ZBBBYFYX		SEOUL COM CENTER RKSSYFYX		FUKUOKA COM CENTER RJJJYFYX	
DOMESTIC AFTN LIST					
RKBBZSZX	KOMCC(SARSAT)	RKRRZQZF	INCHEON ACC		
RKDAYXYX	700 ATC SQ(MCRC)	RKRRZQZG	INCHEON ACC		
RKDAZQZF	DAEGU FDP SERVER ADDRESS	RKRRZQZH	INCHEON ACC AIDC		
RKDAZQZG	DAEGU FPL&MET SERVER ADDRESS	RKRRZQZX	INCHEON ACC		
RKDAZQZH	DAEGU ACC AIDC	RKSIAARX	INCHEON AAR		
RKDAZQZX	DAEGU ACC	RKSIKALO	INCHEON KAL		
RKDAYFYX	DAEGU ACC	RKSIKALX	INCHEON KAL		
RKDAYNYO	DAEGU ACC NOTAM DB	RKSISHKO	SHARP INC.		
RKDAYNYS	DAEGU ACC NOTAM	RKSIYIYA	INCHEON ATIS		
RKDAYOYX	DAEGU ACC FLT INFO CENTER	RKSIYPYX	AVIATION MET OFFICE		
RKDAYOYE	DAEGU ACC FLT INFO CENTER	RKSIZAZS	SEOUL APP		
RKDAZQZE	DAEGU ACC	RKSIZPZG	FOIS SYSTEM		
RKDAZQZS	DAEGU ACC	RKSIZPZH	FOIS SYSTEM		
RKDAYIYT	DAEGU ACC KAC	RKSIZPZI	FOIS SYSTEM		
RKDAZAZS	ATFMS	RKSIZPZN	FOIS SYSTEM		
RKDAZAZX	ATFMS	RKSIZPZX	INCHEON AIS T1		
RKDAZDZX	CTFMS	RKSIZPZB	INCHEON AIS T2		
RKDAZEZA	ATMO FSMS	RKSIYPYS	AVIATION MET OFFICE		
RKDJKHAX	HELIKOREA	RKSIZAZB	INCHEON IAC		
RKJBYFYX	MUAN COM STN	RKSIZAZC	INCHEON IAC		
RKJBYIYX	MUAN ATIS	RKSIZAZD	INCHEON IAC		
RKJBZPZX	MUAN AIS	RKSIZAZX	INCHEON IAC		
RKJBZTZX	MUAN TWR	RKSIZXFM	IAC FIMS		
RKJJYFYX	GWANGJU COM STN	RKSLYAYX	MINISTRY OF LAND TRANSPORT		
RKJJZAZX	GWANGJU APP	RKSLYNYS	MINISTRY OF LAND, INFRASTRUCTURE AND TRANSPORT		
RKJJZPZX	GWANGJU AIS				
RKJKZPZX	GUNSAN AIS	RKSSAARO	GIMPO AAR		
RKJYZPZX	YEOSU AIS	RKSSABLO	AIR BUSAN		
RKJYIYA	YEOSU ATIS	RKSSASVO	GIMPO AIR SEOUL		
RKNWZPZX	WONJU AIS	RKSIAIHX	INCHEON AIH		
RKNYZPZX	YANGYANG AIS	RKSSESRO	EASTAR JET		
RKNYZTZX	YANGYANG TWR	RKSSESRX	EASTAR JET		
RKNYIYA	YANGYANG ATIS	RKSSHGGX	HI AIR		
RKNYIYB	YANGYANG ATIS	RKSSHPBX	HANHWA		
RKPCAARO	JEJU AAR	RKSSJJAO	JEJU AIR		
RKPCYFYA	JEJU COM STN	RKSSJJAS	JEJU AIR		
RKPCYFYX	JEJU COM STN	RKSSJNAX	JIN AIR		
RKPCYIYX	JEJU KAC	RKSSKAAO	K-AVIATION		
RKPCZAZS	JEJU APP(ARTS)	RKSSKABO	AIR POHANG		
RKPCZAZX	JEJU APP	RKSSKALC	GIMPO KAL		
RKPCZPZA	JEJU AIS	RKSSKALO	GIMPO KAL		
RKPCZPZX	JEJU AIS	RKSSKALS	GIMPO KAL		
RKPCZTZA	JEJU ATIS	RKSSKALX	GIMPO KAL		
RKPCZTZX	JEJU TWR	RKSSPTAO	PARATA AIR		
RKPDZPZX	JEONGSEOK AIS	RKSSTWBX	T'WAY AIR		
RKPDZTZX	JEONGSEOK TWR	RKSSYAYX	GIMPO CNS STN		
RKPKAARO	GIMHAE AAR	RKSSYHYX	SEOUL FIRE AVIATION OFFICE		
RKPKYFYA	GIMHAE COM STN	RKSSYIYI	KAC		
RKPKYFYB	GIMHAE COM STN	RKSSYIYX	GIMPO KAC		
RKPKYFYC	GIMHAE COM STN	RKSSYOYX	GIMPO NOTAM OFFICE		
RKPKYFYD	GIMHAE COM STN				
RKPKYFYX	GIMHAE COM STN				
RKPKZPZX	GIMHAE AIS				
RKPKZAZC	GIMHAE ARTS				
RKPKZAZX	GIMHAE APP				
RKPKZTZX	GIMHAE TWR				
RKPSZPZX	SACHEON AIS				
RKPUZPZX	ULSAN AIS				
RKPUIYIX	ULSAN ATIS				
RKRRYFYX	INCHEON ACC				
RKRRYIYT	INCHEON KAC				
RKRRYNYS	INTL NOTAM OFFICE				
RKRRYNYX	INTL NOTAM OFFICE				

Change : Withdrawal of RKSSADBS, RKSSFGWO, RKSSYEYX and Establishment of RKSSPTAO.



RKSSYQYX	AIR NAV CENTRAL MANAGEMENT	
RKSSYSYX	SEOUL RADIO	
RKSSZKPY	SEL COM CENTER	
RKSSZPZX	GIMPO AIS	
RKSSZTZR	GIMPO ASDE1	
RKSSZTZX	GIMPO ASDE2	
RKSSZZZX	SEOUL RADIO	
RKTAHSFX	TAEAN AIS	
RKTFYXYX	ROKAF MET HQ	
RKTHZPZX	POHANG GYEONGJU AIS	
RKTLZTZX	ULJIN TWR	
RKTLZPZX	ULJIN AIS	
RKTNZPZX	DAEGU AIS	
RKTUYOYX	CHEONGJU AIS	
RKTUZAZA	CHEONGJU APP	
RKTUZAAB	CHEONGJU APP	
RKTUZAAC	CHEONGJU APP	
RKTUZPZX	CHEONGJU AIS	

4. 요구사항 및 조건

NIL

4. Requirements and conditions

NIL

5. 추가 정보

NIL

5. Miscellaneous

NIL