

Terrestrial
Workshop on the
Preparation of
Notices for Fixed
and Mobile Services



Overview of the Notification workshop on Fixed and Mobile Services

- General guidelines for Fixed and Mobile Services
- Reference documents for notification
- The main features of TerRaNotices
- Exercises



- The notification process is identical to the Broadcasting service
 - The new notification will replace the previous one
 - The new notification shall be a complete notice with the relevant changes
 - The Bureau needs to uniquely identify each notice



- Identifying elements for fixed or mobile notification
 - Frequency, geographical coordinates, class of station, Designation of emission and operating hours
 - Unique identification code given by the administration
- BR Assign ID and site name are <u>NOT</u> identifying elements but they could be notified in the remarks field, for information



- Notifying a transmitting station with multiple fixed receiving stations
 - All the associated fixed receiving stations shall be notified in the same notice as the transmitting station within the Antenna characteristics of the transmitter
- Notifying a transmitting station with several links
 - All the transmitting links of that station shall be notified in the same notice as the transmitting station
 - Each link's associated receiving station shall be notified within the Antenna characteristics of its transmitter
- The same general principle applies to the case of a fixed receiving station with mobile transmitter(s)



- Call sign or station Identification is mandatory for:
 - Fixed service in the bands below 28 MHz
 - Safety services (aeronautical, maritime, etc.)
- Call Sign if provided shall be in conformity with the Article 19 of RR and Appendix 42 to RR
- Article 19 Section III Formation of call sign for the different types of stations



- Assigned frequencies that fall within the bands shared on an equal basis with space services:
 - The following data items are mandatory
 - Elevation angle
 - Antenna height
 - Altitude of site above sea level
 - The radiated power and maximum antenna gain shall be notified in isotropical values



Reference documents for notification

Guidelines and examples of different notice types

http://www.itu.int/ITU-R/go/terrestrial-notice/en

Preface to the BR IFIC



http://www.itu.int/ITU-R/go/terrestrial-brific/en

Radio Regulations and World and Regional Agreements







The main features of TerRaNotices

- Create new notices
- Notice creation "Wizard"
- Open a notice from the database
- Validate an existing notice
- Calculate effective antenna heights (GE06 Agreement)
- Options



FXM 01: Fixed service (point-to-multipoint)

Prepare an electronic notice of frequency 4.93 GHz used for the operation of two fixed links based on the information below, for its recording in the Master Register.

Class of emission	D7W	
Bandwidth	40MHz	
Transmitting antenna site name	KHASSAB (OMA)	
Coordinates of the transmitting antenna site	56° 13'58"E - 26° 09'29"N	
Altitude of site above sea level	31 m	
Antenna 1		
Height of the Antenna above ground level	10 m	
Azimuth of maximum radiation	221.7°	
Elevation angle	0.9°	
Maximum antenna gain	36 dB	
Effective radiated power	34.2 dBW	
Power to the antenna	-1.0 dBW	
Beam width	2.6°	
Polarization	V	
Name of the location of the receiving station	FINE PEAK	
Coordinates of the receiving station	56° 10'30"E - 26° 05'59"N	
Antenna 2		
Height of the Antenna above ground level	34 m	
Azimuth of maximum radiation	129°	
Elevation angle	0.3°	
Maximum antenna gain	37 dB	
Effective radiated power	35 dBW	
Power to the antenna	0 dBW	
Beam width	2.4°	
Polarization	V	
Name of the location of the receiving station	KHOR HAJD	
Coordinates of the receiving station	56° 15'00"E - 26° 00'00"N	



FXM 02: Fixed service (Point-to-Point) in the shared bands

Prepare an electronic notice file of frequency 6.0638 GHz, which falls within the bands shared on equal basis with the space services, used between to two fixed stations, for its recording in the Master Register.

Transmitting antenna site name	VENDOME (F)
Coordinates of the transmitting antenna site	1° 03'05"E - 47° 48'49"N
Necessary bandwidth	29.6 MHz
Class of emission	G7W
Altitude of site above sea level*	133 m
Height of the Antenna above ground level*	43 m
Azimuth of maximum radiation	206.5°
Elevation angle*	0.1°
Antenna gain	38.7 dB
Effective radiated power	35.1 dBW
Power to the antenna	2 dBW
Beam width	1.9°
Polarization	V
Name of the location of the receiving station	MONNAIE (F)
Coordinates of the receiving station	0° 48'25"E - 47° 28'55"N

^{*} These fields are mandatory for shared bands



FXM 03: Land mobile service (point-to-area/area-to-point)

1/ Prepare an electronic notice file of frequency 466.6 MHz assigned to a Base station having circular receiving area of a radius of 30 km, for its recording in the Master Register.

Bandwidth	1.25MHz
Class of emission	G7W
Transmitting antenna site name	BUKH BUKHARA (UZB)
Location of transmitting station	64° 25'10"E - 39° 45'58"N
Effective radiated power	28 dBW
Antenna directivity	Omnidirectional

2/ Prepare an electronic notice file of frequency 456.6 MHz assigned to the associated Mobile station of the above Base station, for its recording in the Master Register.

Bandwidth	1.25MHz
Class of emission	G7W
Name of the location of the receiving station	BUKH BUKHARA (UZB)
Coordinates of the receiving station	64° 25'10"E - 39° 45'58"N
Effective radiated power	28 dBW
Antenna directivity	Omnidirectional



FXM 04: Maritime mobile Service (point-to-area)

Prepare an electronic notice file, for recording in the Master Register, a frequency of 8.15040 MHz assigned to a Coast station situated in Korea, having a circular receiving area of a radius of 500 km.

Bandwidth	2.8 kHz
Class of emission	J3E
Transmitting antenna site name	JEJU GWANGPYEONG RI (KOR)
Coordinates of the transmitting antenna site	126° 22'30"E - 33° 19'00"N
Height of the Antenna above ground level	10 m
Antenna gain	0 dB
Power to the antenna	24 dBW
Effective radiated power	24 dBW
Call Sign	DSA90
Antenna directivity	Omnidirectional



FXM 05: Suppression of an assignment no longer in use

Prepare an electronic notice file to suppress from the Master Register the frequency 84.775MHz assigned to a Typical station belonging to Switzerland that is no longer in use.

Class of station of the target	FB
Bandwidth of the target	16 kHz
Emission class of the target	F3E
Hours of operation of the target	00:00 - 24:00
Geographic area, or standard area to which the typical station is applicable	SUI



FXM 06: Typical transmitting station

Prepare an electronic notice of frequency 506.456 MHz used by several fixed stations within a circular area of a radius of 30 km, using the information below, for the recording in the Master Register.

Assigned frequency	506.456 MHz
Necessary Bandwidth	10 kHz
Class of emission	F2D
Center of the circular area	58°32'26"W - 34°42'03"S (ARG)
Power to the antenna	1.7 dBW
Type of power	Y
Radiated Power	3.1 dBW



FXM 07: Modification of the radiated power of a notice in process

Reduce the radiated power of the 2nd antenna by 2 dBW of the notice created in FXM 01.



Any questions?

WRS_terrestrial@itu.int

