

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

9-13 December 2013
Tunis, Tunisia



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 enables administrations to send, at any time, either new data or to modify the data submitted to the BR
 - 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 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 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
 - Polarization
 - 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
- Options



FXM 01: Fixed service (Point-to-Multipoint)

- Prepare an electronic notice of frequency 1516 MHz used for the operation of fixed link based on the information below, for its recording in the Master Register.
- The two links are originating from the same transmitting station associated with two antennas.
- To prepare this notice we will use "New Notice" functionality of TerRaNotices and we will select TUN as the notifying administration.

Class of Emission	F7E	
Bandwidth	300 kHz	
Transmitting antenna site name	TUNIS	
Coordinates of the transmitting antenna site	10° 09'0"E - 36° 49'00"N	
Date of bringing into use	Not earlier than 3 months	
	Antenna 1	Antenna 2
Antenna directivity	Directional	Directional
Azimuth of maximum radiation	155°	320°
Beamwidth	9°	9°
Maximum antenna gain	20.9 dB	18 dB
Effective radiated power	20.9 dBW	18 dBW
Power delivered to the antenna	0 dBW	0 dBW
Name of the location of the receiving station	GROMBALTA	BIZERTE
Coordinates of the receiving station	10° 20'0"E - 36° 30'0"N	9° 48'0"E - 37° 09'0"N



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

- Prepare an electronic notice of frequency 7.04000 GHz, which falls within the bands shared on equal basis with the space services, used for the operation of three fixed links based on the information below, for its recording in the Master Register.
- As the assigned frequency falls within the bands shared on equal basis with space services, the following fields are mandatory:
 - Altitude of site above sea level
 - Height of Antenna above ground level
 - Elevation angle
 - Polarization

Class of Emission	F3E	
Bandwidth	40 MHz	
Transmitting antenna site name	OCTOBER CITY (EGY)	
Coordinates of the transmitting	31° 00'57"E - 29° 57'55"N	
antenna site		
Altitude of site above sea level	179 m	
Date of bringing into use	Not earlier than 3 years	
Antenna		
Height of the Antenna above	57 m	
ground level		
Antenna directivity	Directional	
Azimuth of maximum radiation	67°	
Beamwidth	4°	
Polarization	Horizontal	
Elevation angle	-0.3°	
Maximum antenna gain relative to	30 dBi	
isotropic antenna		
Equivalent isotropical radiated	39 dBW	
power		
Power delivered to the antenna	9 dBW	
Name of the location of the	MASPERO	
receiving station		
Coordinates of the receiving station	31° 13'51"E - 30° 03'12"N	



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

1. Prepare an electronic notice file of frequency 467.6 MHz assigned to a Base station having a circular receiving area of a radius of 5 km, for its recording in the Master Register.

Bandwidth	16 kHz
Class of emission	F3E
Transmitting antenna site name	MUSCAT (OMA)
Location of transmitting station	58° 36'00"E - 23° 37'00"N
Effective radiated power	3 dBW
Power delivered to the antenna	3 dBW
Maximum antenna gain	0 dB
Antenna directivity	Omnidirectional



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

2. Prepare an electronic notice file of frequency 467.275 MHz assigned to the associated Receiving Mobile station of the above Base station, for its recording in the Master Register.

Bandwidth	16 kHz
Class of emission	F3E
Name of the location of the receiving station	MUSCAT (OMA)
Coordinates of the receiving station	58° 36'00"E - 23° 37'00"N
Effective radiated power	3 dBW
Power delivered to the antenna	3 dBW
Antenna directivity	Omnidirectional

To prepare these notices we will first use "New Notice" functionality of TerRaNotices with OMA as the notifying administration and then we will use "Insert new notice" functionality of TerRaNotices. This functionality enables to have more than one notice in a file.



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

- Prepare an electronic notice, for the recording in the Master Register of frequency 5.15340 MHz assigned to a coast station open to public correspondence having a circular receiving area of a radius of 150 km.
- For coast stations, Call sign or Station identification is mandatory. Station identification can be composed of any printable characters (max. 20). However, if Call sign is notified then it shall be in conformity with the provisions of Article 19 and Appendix 42.
- To prepare this notice we will use "New Notice" functionality of TerRaNotices and we will select UAE as the notifying administration.

Reference (carrier) frequency	5.15200 MHz
Bandwidth	2.8 kHz
Class of emission	J3E
Transmitting antenna site name	DUBAI
Coordinates of the transmitting antenna site	55° 22'24"E - 25° 21'24"N
Power delivered to the antenna	20 dBW
Effective radiated power	20 dBW
Call Sign	A6B754
Antenna directivity	Omnidirectional



FXM 05: Typical transmitting station

- Prepare an electronic notice, for the recording in the Master Register of frequency
 935.8 MHz used by several base stations in your country using the information below.
- Frequency assignments having the same technical characteristics operating within a given area can be notified in a single notice as a typical transmitting station under (RR.11.17). This provision does not apply to all service types (see RR 11.18-11.21B)
- To prepare this notice we will use the "Wizard" functionality of TerRaNotices.

Necessary Bandwidth	200 kHz
Class of emission	F3E
Transmitting geographical area	Enter the country code to notify
Power to the antenna	14.9 dBW
Radiated Power	14.9 dBW



FXM 06: Fixed service (point-to-Multipoint) notice with errors

 Use TerRaNotices to validate the electronic notice file FXM06.txt and identify the errors and to correct the errors.



Thank you for your attention!

