




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



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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

General guidelines on the notification process for Fixed and Mobile Services

- 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

General guidelines on the notification process for Fixed and Mobile Services

- 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 NOT identifying elements but they could be notified in the remarks field, for information

General guidelines on the notification process for Fixed and Mobile Services

- 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)

General guidelines on the notification process for Fixed and Mobile Services

- 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

General guidelines on the notification process for Fixed and Mobile Services

- 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-point)

- Prepare an electronic notice of frequency 42.2 MHz used for the operation of fixed link based on the information below, for its recording in the Master Register.
- To prepare this notice we will use “New Notice” functionality of TerRaNotices and we will select FJI as the notifying administration.

Class of Emission	F8EJF
Bandwidth	16 kHz
Transmitting antenna site name	SO RIDGE
Coordinates of the transmitting antenna site	177° 55'00"E - 17° 35'00"S
Nature of service	Preface Chapter IV, Section 7
Date of bringing into use	Not earlier than 3 months
Address code	Preface Chapter IV, Section 3
Antenna	
Antenna directivity	Directional
Effective radiated power	13.9 dBW
Power delivered to the antenna	13.9 dBW
Maximum Gain relative to a half wave dipole	0 dB
Name of the location of the receiving station	LAUTOKA
Coordinates of the receiving station	177° 29'00"E - 17° 36'00"S
Azimuth of maximum radiation	100.0°
Beamwidth	0°

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

Class of Emission	G7W
Bandwidth	9.0 MHz
Transmitting antenna site name	KITAKYUSHU
Coordinates of the transmitting antenna site	130° 57'26"E - 33° 55'58"N
Altitude of site above sea level	280 m
Date of bringing into use	Not earlier than 3 years
Antenna 1	
Height of the Antenna above ground level*	34 m
Antenna directivity	Directional
Azimuth of maximum radiation	243.5°
Beamwidth	0.8°
Polarization	Vertical
Elevation angle	-0.3°
Maximum antenna gain relative to isotropic antenna	45.5 dBi
Equivalent isotropically radiated power	33.5 dBW
Power delivered to the antenna	-12.0 dBW
Name of the location of the receiving station	KURATEKURATE
Coordinates of the receiving station	130° 38'29"E - 33° 48'18"N
Antenna 2	
Height of the Antenna above ground level*	20 m
Antenna directivity	Directional
Azimuth of maximum radiation	214.8°
Beamwidth	0.8°
Polarization	Vertical
Elevation angle*	-1.2°
Maximum antenna gain relative to isotropic antenna	45.5 dBi
Equivalent isotropically radiated power	33.5 dBW
Power delivered to the antenna	-12.0 dBW
Name of the location of the receiving station	KITAKYUSHUKOKURAMINAMI
Coordinates of the receiving station	130° 53'02"E - 33° 50'51"N

- Prepare an electronic notice of frequency 6.680 GHz, which falls within the bands shared on equal basis with the space services, used for the operation of two fixed links 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 the "Wizard" functionality of TerRaNotices and the functionality of TerRaNotices to add many antennas to a single notice. And we will select Japan as the notifying administration.
- 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 and Polarization.

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

- Prepare an electronic notice file of frequency 152.100 MHz assigned to a Base station having a circular receiving area of a radius of 30 km, for its recording in the Master Register.

Bandwidth	36 kHz
Class of emission	F3E
Transmitting antenna site name	SIMLA
Location of transmitting station	77° 13'00"E - 31° 06'00"N
Effective radiated power	17 dBW
Antenna directivity	Omnidirectional

- Prepare an electronic notice file of frequency 152.100 MHz assigned to the associated Receiving Mobile station of the above Base station, for its recording in the Master Register.

Bandwidth	36 kHz
Class of emission	F3E
Name of the location of the receiving station	SIMLA
Coordinates of the receiving station	77° 13'00"E - 31° 06'00"N
Effective radiated power	17 dBW
Antenna directivity	Omnidirectional

- To prepare these notices we will first use “New Notice” functionality of TerRaNotices with IND 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 161.950 MHz assigned to a coast station open to public correspondence situated in Papua New Guinea having a circular receiving area of a radius of 30 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 PNG as the notifying administration.

Bandwidth	16 kHz
Class of emission	F3E
Transmitting antenna site name	MANUS ISLAND
Coordinates of the transmitting antenna site	147° 22'00"E - 2° 2'00"S
Power delivered to the antenna	13 dbW
Effective radiated power	16 dbW
Call Sign	P2B6
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: Modifying a frequency assignment

- Prepare an electronic notice to modify a frequency assignment which is already recorded in the Master register from your country.
- To prepare this notice we will use “Open a Notice from the database ” functionality of TerRaNotices.

FXM07: Validating and identifying errors of a Frequency assignment notice

- Validate and identify the errors of the electronic notice file “FXM07_T11_WithError.txt”.
- To Validate and identify errors of a notice file, we will use “Open file” and “Validate Notice” functionalities of TerRaNotices.

Thank you for your attention!