



30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022

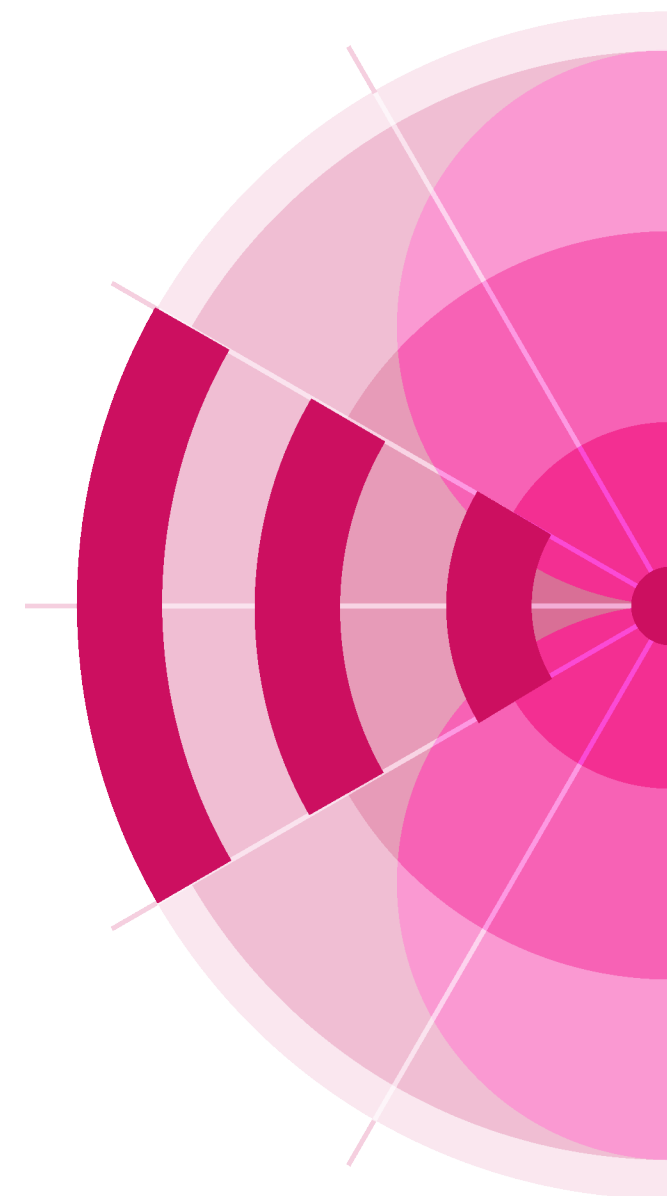
Geneva, Switzerland

eTerrestrial – eFXM(Fixed/Mobile) online tools for terrestrial (except broadcasting) services

Fixed and Mobile Services Division
Radiocommunication Bureau
(BR/TSD/FMD)

www.itu.int/go/wrs-22

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Agenda

- **background**
 - “eTerrestrial” an online portal for terrestrial services
 - “eFXM” as a part of eTerrestrial platform
- **eFXM tool presentations**
 - Structure of eFXM portal site
 - eQueryFXM functions
- **eQueryFXM tool demonstrations**
- **future eFXM development plan**
 - ePubFXM, eToolsFXM and MyAdminFXM

eTerrestrial

an online portal for terrestrial services

<https://www.itu.int/ITU-R/eTerrestrial/>

Background

- **eTerrestrial** is a platform to provide online services for terrestrial services. BR started its development in 2006.
- **eFXM (Fixed/Mobile)** is a part of **eTerrestrial** platform, which provides online web services for terrestrial (except broadcasting) services. BR started its development in January 2022.

The screenshot shows the eTerrestrial website interface. At the top, there is a dark blue navigation bar with white text for the following tabs: eTerrestrial (with a home icon), eMIFR, eValidation, WISFAT, eBroadcasting, eFXM(Fixed/Mobile), and ePropagation. Below the navigation bar is a large light blue banner with a world map background. On the left of the banner is a circular icon containing a smartphone, a Wi-Fi symbol, and a tower. To the right of the icon, the text reads "eTerrestrial: an online Portal for terrestrial services". Below the banner, a paragraph states: "The eTerrestrial platform provides **secure web-based services to TIES users** . The following tools are available:". Below this text are six service tiles arranged in a 2x3 grid. Each tile has a blue header with the service name, a light gray body with a description and a "Go to" link, and a circular icon on the right. The eFXM(Fixed/Mobile) tile is highlighted with an orange border. The tiles are: eMIFR (Online query system of the MIFR for all terrestrial services), eValidation (Validation of frequency notices before their official submission via WISFAT), WISFAT (Web Interface for Submission of Frequency Assignments/Allotments for Terrestrial Services), eBroadcasting Portal (Online platform for broadcasting services), eFXM(Fixed/Mobile) (>Online platform for Fixed and Mobile services), and ePropagation (Online platform for Field Strength Calculations).



Structure of eFXM platform

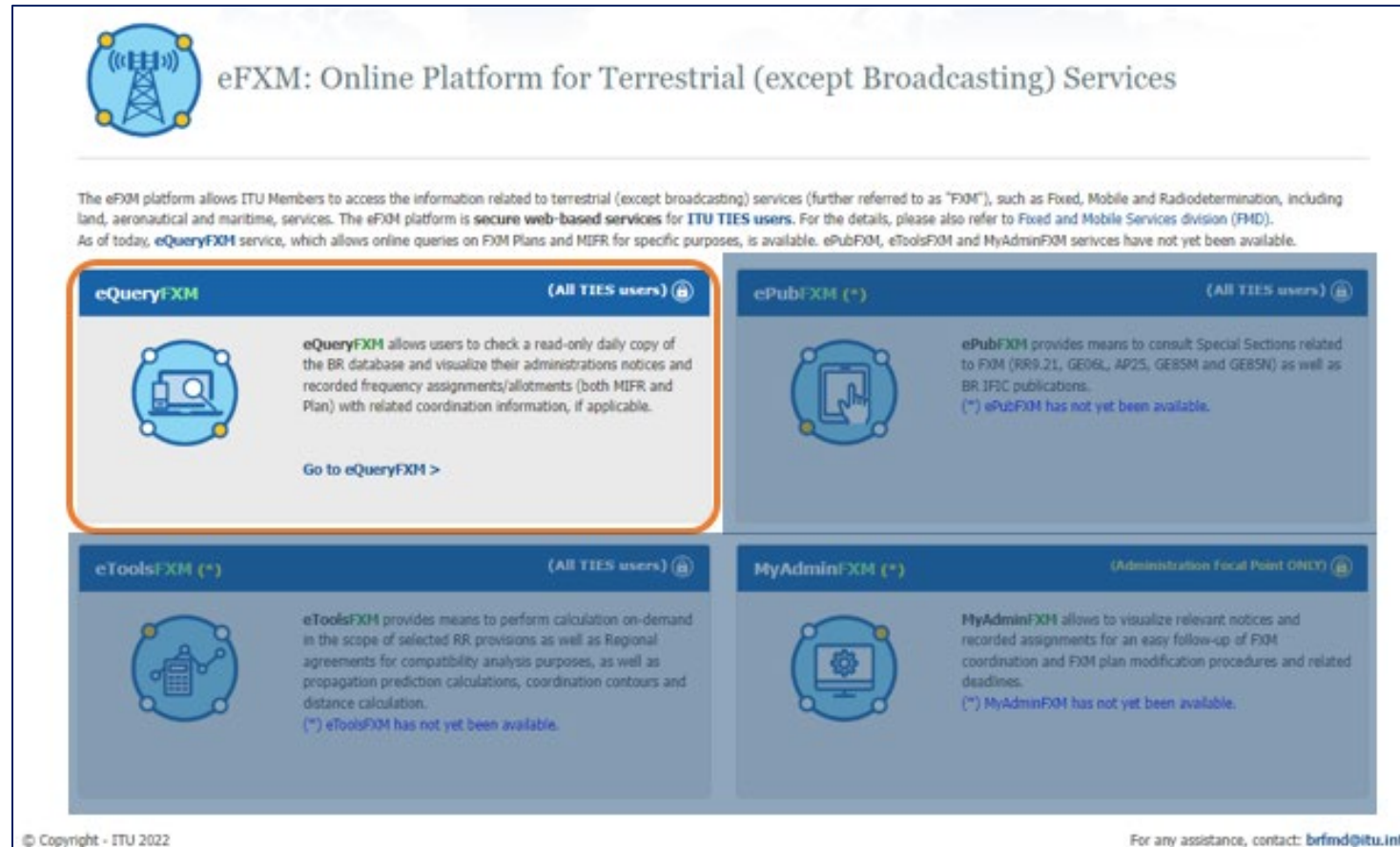
<https://www.itu.int/ITU-R/eTerrestrial/eFXM>

Objective

- **eFXM** platform is being developed to provide useful and secure web-based tools of terrestrial (except broadcasting) services (further referred to as "FXM") for TIES authenticated users to facilitate the application of the regulatory procedures by providing online access to BR databases and services.
- **eQueryFXM**, which provides online query to BR databases, has been developed.

New functions (eQueryFXM)

- Query function of **Plan allotments** and **common frequencies** in FXM part in addition to MIFR.
- Function to provide lists of more detailed technical elements which may be used in sharing and compatibility studies under WRC-23 agenda items.



The screenshot displays the eFXM platform interface. At the top, there is a logo of a radio tower and the title "eFXM: Online Platform for Terrestrial (except Broadcasting) Services". Below the title, a paragraph explains that the platform allows ITU Members to access information related to terrestrial services (FXM), such as Fixed, Mobile, and Radiodetermination, including land, aeronautical, and maritime services. It notes that the platform is secure and web-based, and that eQueryFXM is currently available, while ePubFXM, eToolsFXM, and MyAdminFXM are not yet available.

The interface features four service tiles:

- eQueryFXM (All TIES users):** Allows users to check a read-only daily copy of the BR database and visualize their administrations notices and recorded frequency assignments/allotments (both MIFR and Plan) with related coordination information, if applicable. A link "Go to eQueryFXM >" is provided.
- ePubFXM (*):** Provides means to consult Special Sections related to FXM (RR9.21, GE06L, AP25, GER5M and GER5N) as well as BR IFIC publications. A note states "ePubFXM has not yet been available."
- eToolsFXM (*):** Provides means to perform calculation on-demand in the scope of selected RR provisions as well as Regional agreements for compatibility analysis purposes, as well as propagation prediction calculations, coordination contours and distance calculation. A note states "eToolsFXM has not yet been available."
- MyAdminFXM (*):** Allows to visualize relevant notices and recorded assignments for an easy follow-up of FXM coordination and FXM plan modification procedures and related deadlines. A note states "MyAdminFXM has not yet been available."


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eQueryFXM

<https://www.itu.int/ITU-R/eTerrestrial/eFXM/eQuery>

Home **eTerrestrial** | [eMIFR](#) | [eValidation](#) | [WISFAT](#) | [eBroadcasting](#) | [eFXM\(Fixed/Mobile\)](#) | [ePropagation](#)

eQueryFXM

 **eQueryFXM: Queries on FXM Plans and MIFR for specific purposes**

[eQueryFXM Readme](#)

Menu Selection
 All (FXM) (*)
 All MIFR (FXM) (*)
 All PLAN (FXM) GE06L GE85M GE85N AP25 AP26 AP27
 Com Freq

Query Type Selection
General Query (default)

(*) To provide specific queries of statistics of stations and technical characteristics related to FXM PLANs and MIFR.

Search Criteria

| | | | | | |
|--|---|--|---|----------------------------|--|
| Administration AFG AFS AGL ALB ALG | Geographic Area ABW AFG AFS AGL AIA | Frequency Unit MHZ | From Freq | To Freq | <input type="checkbox"/> Frequency bandwidth overlap |
| Notice Type T11 T12 T13 T14 T15 | Station Class AL AM BC FA FB | Date of Receipt (From) dd/MM/yyyy | Date of Receipt (To) dd/MM/yyyy | BR Assign Id (From) | BR Assign Id (To) |
| | | Unique Id. code given by Administration | Site Name | Region | |

Status Recorded Pending

Apply **Clear**

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Tool demonstrations

- eQueryFXM -

future eFXM development plan

eQueryFXM [implemented]

Consideration of further improvement to enrich functions

ePubFXM [under consideration]

To be developed in order to provide means to consult Special Sections related to FXM (RR9.21, GE06L, AP25, GE85M and GE85N) as well as BR IFIC publications.

eToolsFXM [under consideration]

To be developed in order to provide means to perform calculation on-demand in the scope of selected RR provisions and Regional agreements for compatibility analysis purposes, as well as propagation prediction calculations, coordination contours and distance calculation.

MyAdminFXM [under consideration]

To be developed in order to allow administration focal points to visualize relevant notices and recorded assignments for an easy follow-up of FXM coordination and FXM plan modification procedures and related deadlines.

Thank you!

ITU – Radiocommunication Bureau

Questions to brfmd@itu.int

