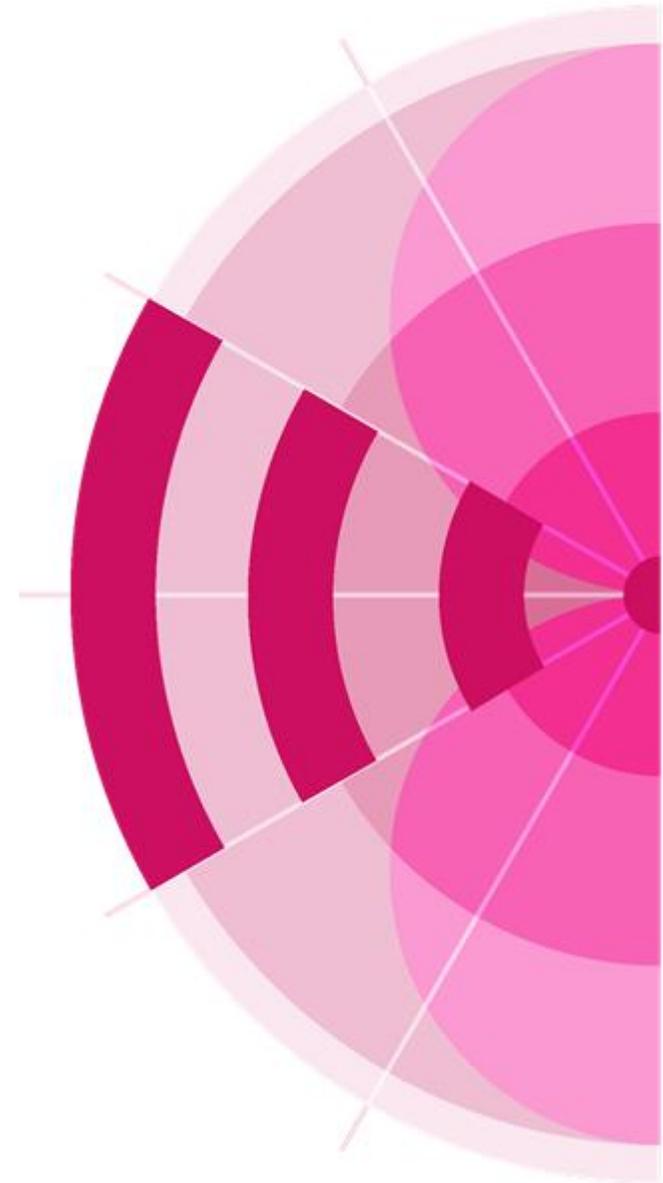


**ITUWRS**  
ONLINE2020

29<sup>TH</sup> WORLD RADIOCOMMUNICATION SEMINAR  
30 November - 11 December 2020

## Use of Terrestrial BR IFIC software tools



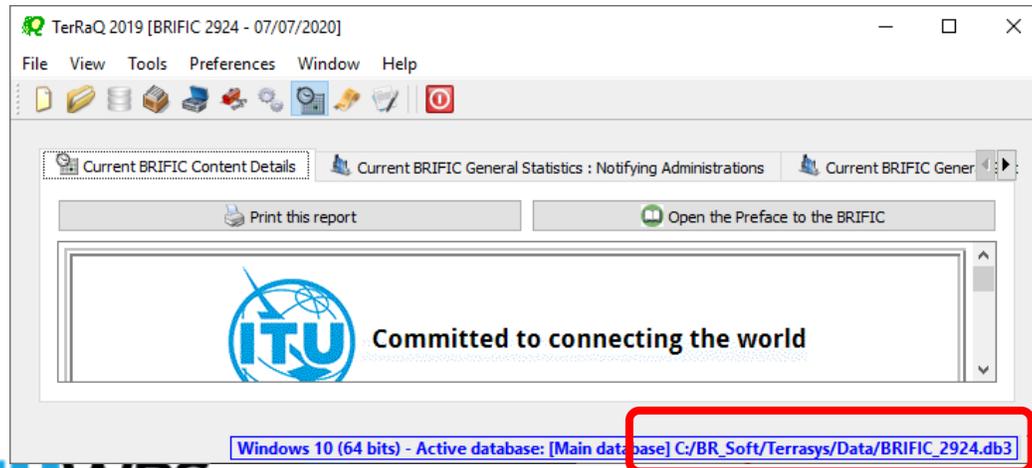
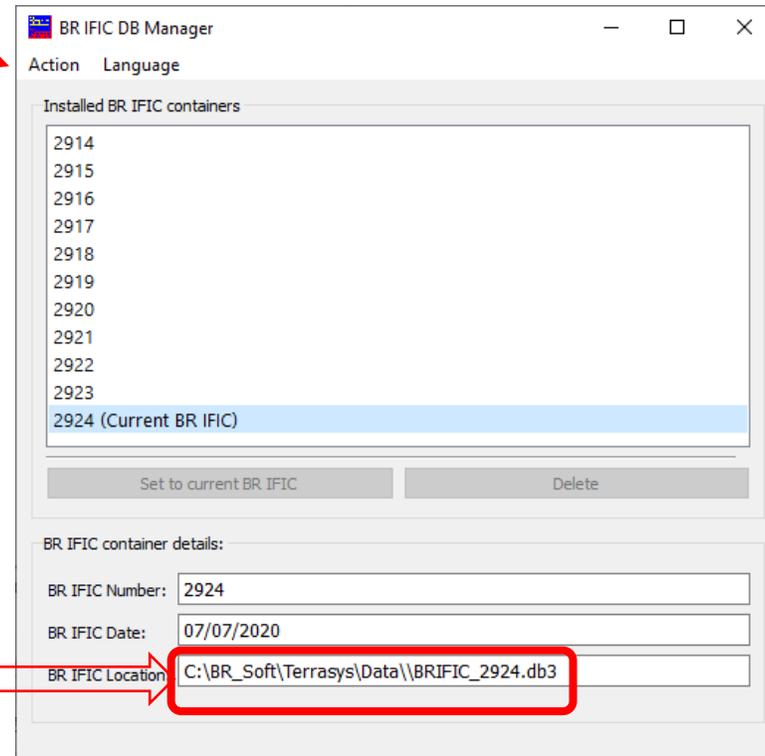
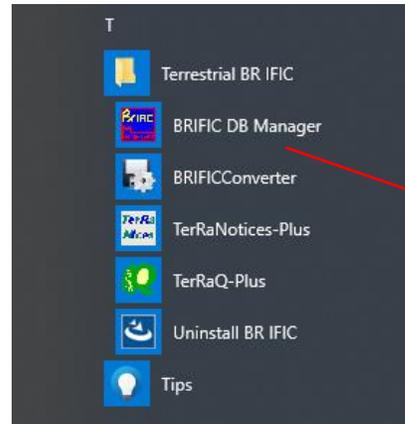
[www.itu.int/go/wrs-20](http://www.itu.int/go/wrs-20)

#ITUWRS

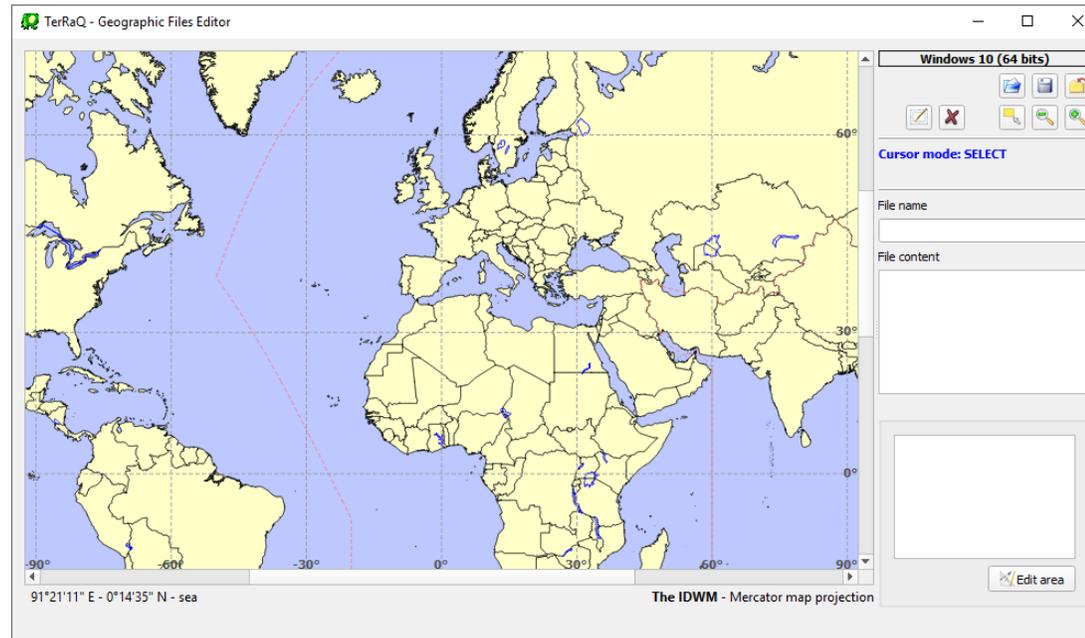
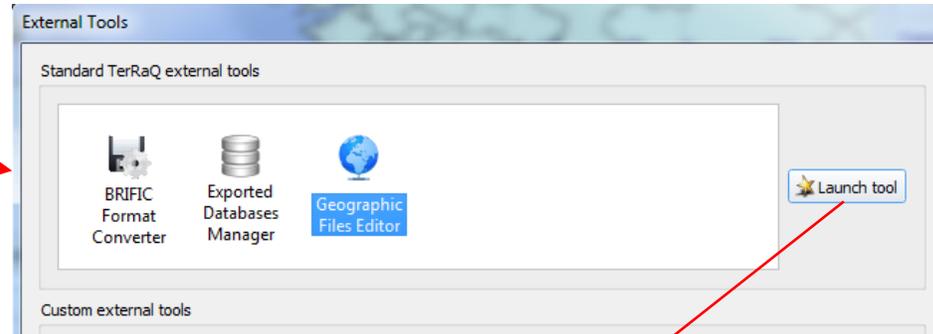
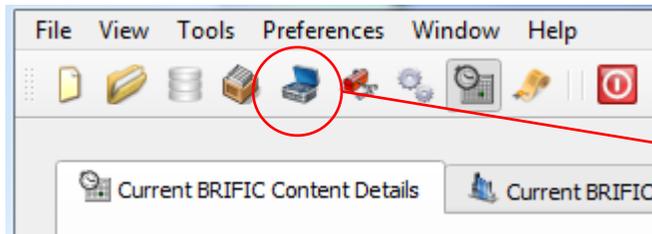
# BR IFIC data consultation

- National extract
  - Retrieve all the assignments recorded in the MIFR on behalf of your Administration using the “Quick Query” option.
- Search for a frequency assignment
  - Retrieve the frequency assignment of 7 198 MHz and geographical coordinates 73°51'46"E - 44°34'19"N using the “General Purpose Query”.
- Latest publication query
  - Retrieve all the frequency assignments of your Administration published by the Bureau in the latest BR IFIC.
- Notification to the BR for registration in the Master Register during year 2018
  - Retrieve all the assignments notified by your Administration, for registration in the **Master Register**, during 2018.
- BR IFIC history check
  - Retrieve all BR IFICs published in 2016 containing notifications submitted by your Administration.

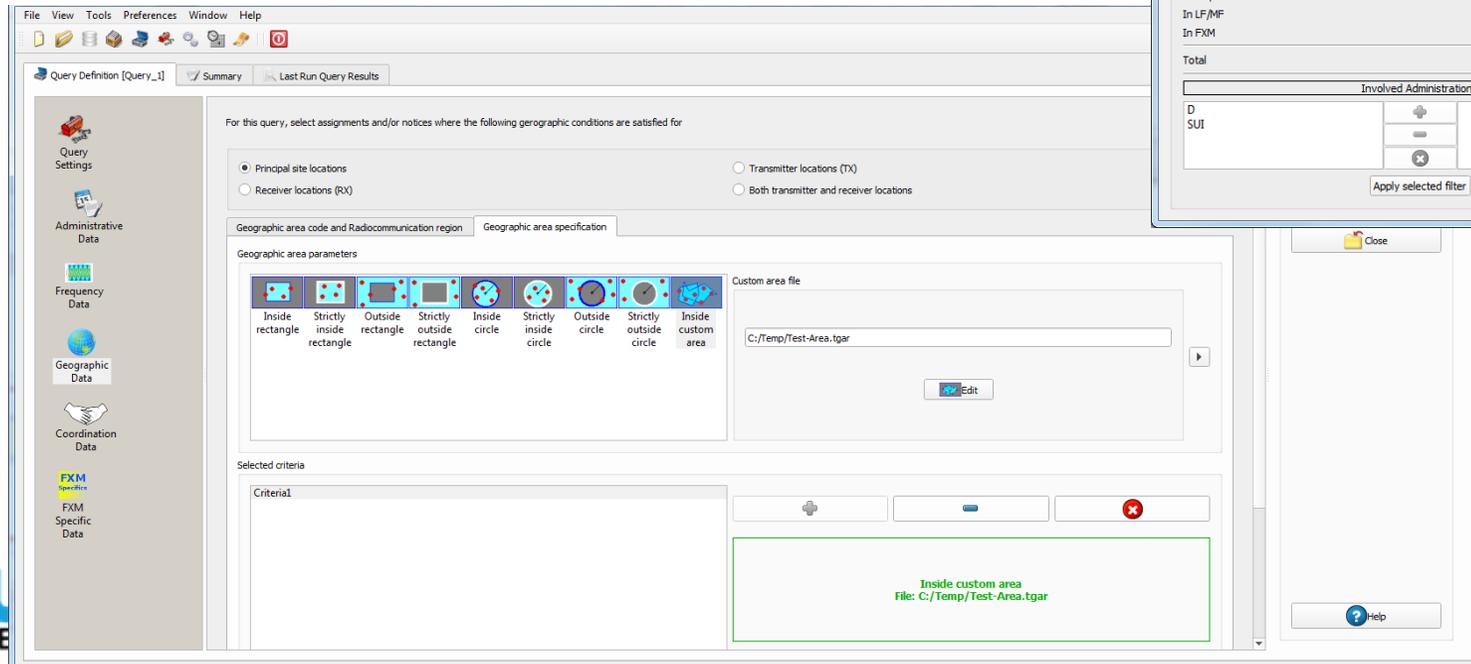
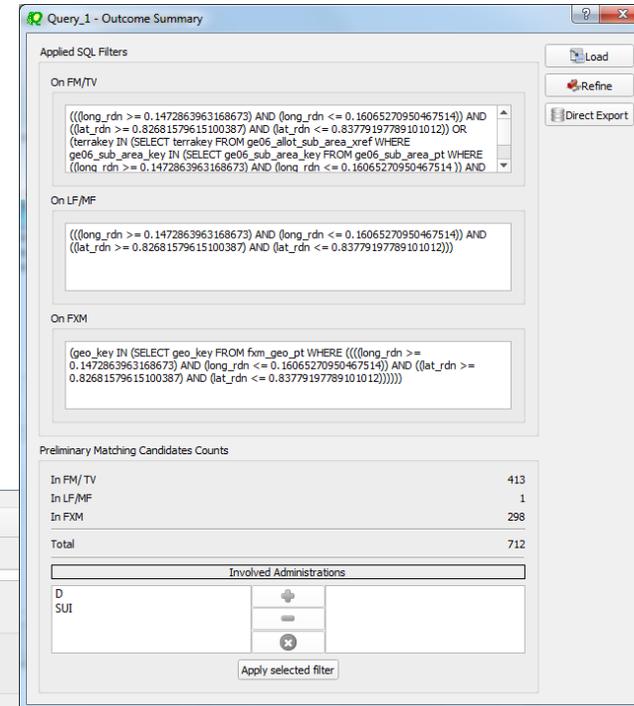
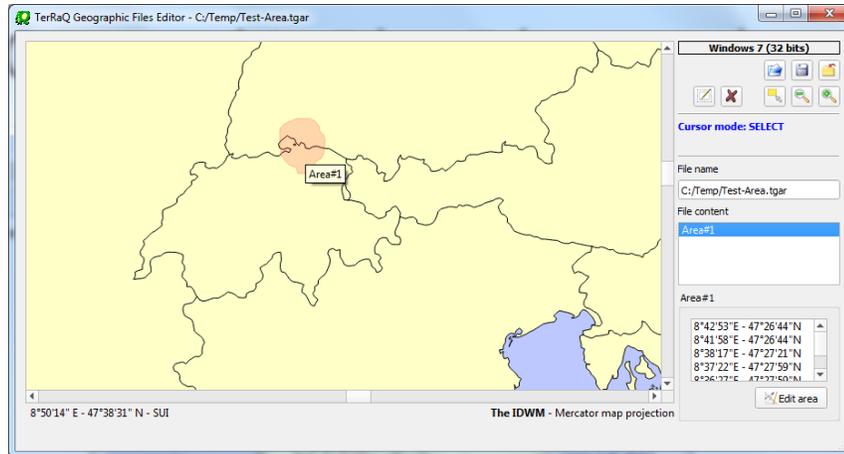
# DB Manager tool



# Geographic Files Editor tool



# Geographic Files Editor tool (continued)



# Special query

## Frequency Bands Overlap

Fragment(s) BR Assigned Id(s) Administration(s) Station Information Notice Information Receipt Date(s)

For this query, select assignments and / or notices notified by the following Administrations

Available Administrations: AFG, AFS, AGL, ALB, ALG, AND, ARG, ARM, ARS, ATG, AUS, AUT, ΔZF

Selected Administrations: SUI

Assigned Frequency Frequency Bands Overlap

In this query, select assignments and/or notices where the assigned frequency (f) satisfies the following frequency conditions

Active criterion

2000 MHz 2800 MHz

$f = f_1$ 
 $f > f_1$ 
 $f_1 <= f$ 
 $f_1 < f$ 
 $f <= f_1$ 
 $f < f_1$ 
 $f_1 <= f <= f_2$ 
 $f_1 < f < f_2$

Active criterion  
2 000 MHz <= f <= 2 800 MHz

Assigned Frequency Frequency Bands Overlap

For this query, select assignments and/or notices whose frequency bands

Overlap with  Don't overlap with

Band type

$[f_1, f_2]$ 
 $]f_1, f_2[$ 
 $]f_1, f_2]$ 
 $[f_1, f_2[$

Low frequency: 2300 MHz

High frequency: 2500 MHz

2 300 MHz <= f <= 2 500 MHz



# Special query (continued)

SQL Query:

Examples:

`select count(*) from fmtv_terra where fragment="NTFD_RR" and intent="RECORDED"`



Navigation: >No topics above this level

### The FXM Domain

The FXM domain covers Fixed (FX), Mobile (M), and other services, such as aeronautical. With one exception (certain shortwave broadcasting bands), the FXM domain does not involve broadcasting. The FXM domain also covers various Plans (such as Appendices 25, 26, and 27) as well as the common frequencies that are reserved for specific purposes, such as emergency or distress use.

There is a separate domain for FXM notices, assignments, and allotments because they generally cover both transmitting and receiving locations. (The LF/MF and FM/TV domains consider only transmitting locations.) Therefore, the FXM database structure is quite different, and more complex, because of this requirement.

In the context of GE06, there is the concept of "other primary services" (OPS), meaning the non-broadcasting primary services within the scope of GE06. The OPS are contained within the FXM domain.

The FXM database tables are:

**FXM Entity / Relationship Data Model**  
March 2011

```
graph TD
    fmx_terra((fmx_terra)) --> fmx_history((fmx_history))
    fmx_terra --> fmx_peak((fmx_peak))
    fmx_terra --> fmx_status((fmx_status))
    fmx_terra --> fmx_acc((fmx_acc))
    fmx_terra --> fmx_ref((fmx_ref))
    fmx_terra --> fmx_msg((fmx_msg))
    fmx_terra --> fmx_entity((fmx_entity))
```

# Open MDB extracts

The screenshot illustrates the workflow for opening an MDB extract in the ITU WRS software. It consists of several key components:

- Browser Window:** Displays the 'BR IFIC Publications' table. The 'MDB Extract' column contains values like 'IFIC2934', 'IFIC2933', etc. A red circle highlights 'IFIC2934'.
- File Explorer:** Shows the file 'brific2934.mdb' selected in the 'C:\Temp' directory. A red arrow points from the circled 'IFIC2934' to this file.
- Software Interface:** The 'File' menu is open, with 'Import External Data' > 'Microsoft Access Database' selected. A red arrow points from this menu item to the 'brific2934.mdb' file in the explorer.
- Query\_1 - Outcome Summary:** A dialog box showing the results of a query. It includes sections for 'Applied SQL Filters', 'Preliminary Matching Candidates Counts', and 'Involved Administrations'. A red arrow points from the 'Execute' button in the 'Query Commands' panel to this dialog.

No.	Date	Article 11 of RR	App.25	GE75	GE84	GE85M	GE85N	GE89	GE05	GE06L	RJ81	RR.9.21/C	RR.9.21/D	ST61	MDB Extract	Note
2934	24/11/2020	Parts 1/2/3							173						IFIC2934	ReadMe
2933	10/11/2020	Parts 1/2/3		189	294				54		991	433			IFIC2933	ReadMe
2932	27/10/2020	Parts 1/2/3							172			990			IFIC2932	ReadMe
2931	13/10/2020	Parts 1/2/3		188	293										IFIC2931	ReadMe
2930	29/09/2020	Parts 1/2/3							171	53		989	432		IFIC2930	ReadMe
2929	15/09/2020	Parts 1/2/3			292										IFIC2929	ReadMe
2928	01/09/2020	Parts 1/2/3/2B		187					17							

# Update Tables 12A/12B of the Preface to the BR IFIC

The screenshot shows a software application with a menu bar (File, View, Tools, Preferences, Window, Help) and a toolbar. Below the toolbar are three tabs: 'Current BRIFIC Content Details', 'Current BRIFIC General Statistics : Notifying Administrations', and 'Current BRIFIC General Statistics : Concerned Administrations'. A 'Print this report' button is visible, and a red box highlights a button labeled 'Open the Preface to the BR IFIC'.

The second window is a PDF viewer showing the document 'http://www.itu.int/ITU-R/terrestrial/docs/brific/files/preface/PREFACE\_EN.pdf'. The left sidebar contains a table of contents with 'Section 3 - Address codes and operating agencies' highlighted. A red arrow points from this section to the table in the main content area.

The main content area displays the title 'Address Codes and Operating Agencies' in three languages: English, French, and Spanish. Below the title are two tables. The first table is for Aruba, and the second is for Afghanistan. Red arrows point from the '12B Code' header of the second table to the 'Section 3' entry in the sidebar, and from the '12A Code' header to the 'Section 3' entry.

Symbol	Geographical Area	12B Code	Address of the Administration(s)
ABW	Aruba	A	MINISTRY OF ECONOMIC AFFAIRS, AGRICULTURE AND INNOVATION, RADIO COMMUNICATIONS AGENCY P.O. BOX 450, 9700 AL GRONINGEN TELEFAX +31 50 58 77 400 E-MAIL info@agentschaptelcom.nl PHONE +31 50 58 77 555
	Aruba	B	DIRECTIE TELECOMMUNICATIE ZAKEN RUMBASTRAAT 19 ORANJESTAD E-MAIL dirtelza@setarnet.aw PHONE +297 582 6069 TELEFAX +297 582 5307

Symbol	Geographical Area	12B Code	Address of the Administration(s)
AFG	Afghanistan	A	MINISTRY OF COMMUNICATIONS LIAISON AND DOCUMENTS DEPARTMENT INTERNATIONAL ORGANIZATIONS LIAISON SECTION KABUL ISLAMIC STATE OF AFGHANISTAN TELEFAX +4940 2295 347
	Afganistán	12A Code	Operating Agencies
		001	MINISTRY OF COMMUNICATIONS
		002	MINISTRY OF CIVIL AVIATION
		003	AFGHAN AIR AUTHORITY
		004	EMBASSY OF THE REPUBLIC OF TURKEY

# Thank you

ITU – Radiocommunication Bureau  
Questions to [brmail@itu.int](mailto:brmail@itu.int) or [brtpr@itu.int](mailto:brtpr@itu.int)

