



30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022

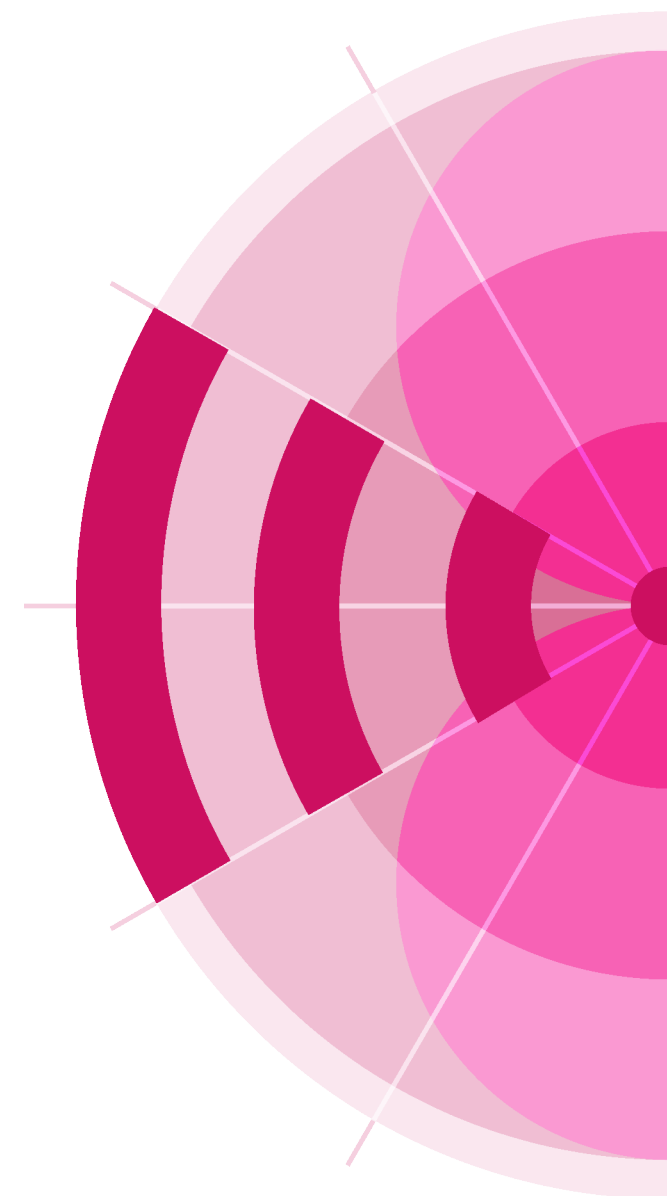
Geneva, Switzerland

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
- **exercise session**

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 banner area with a light blue background and a world map. On the left of the banner is a circular icon containing a smartphone, a Wi-Fi symbol, and a radio 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 cards arranged in a 2x3 grid. Each card 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) card is highlighted with an orange border. The services and their descriptions 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; 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 header with the eFXM logo and the title "eFXM: Online Platform for Terrestrial (except Broadcasting) Services". Below the header, a paragraph explains the platform's purpose: "The eFXM platform allows ITU Members to access the information related to terrestrial (except broadcasting) services (further referred to as 'FXM'), such as Fixed, Mobile and Radiodetermination, including land, aeronautical and maritime, services. The eFXM platform is secure web-based services for ITU TIES users. For the details, please also refer to Fixed and Mobile Services division (FMD). As of today, eQueryFXM service, which allows online queries on FXM Plans and MIFR for specific purposes, is available. ePubFXM, eToolsFXM and MyAdminFXM services have not yet been available." Below this text, there are four service tiles arranged in a 2x2 grid. Each tile has a title, a user access level, an icon, a description, and a link or status. The eQueryFXM tile is highlighted with an orange border. The tiles are: 1. eQueryFXM (All TIES users) with a laptop icon, description: "eQueryFXM 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." and a link "Go to eQueryFXM >". 2. ePubFXM (All TIES users) with a tablet icon, description: "ePubFXM provides means to consult Special Sections related to FXM (RR9.21, GE06L, AP25, GER5M and GER5N) as well as BR IFIC publications." and a note "(*) ePubFXM has not yet been available." 3. eToolsFXM (All TIES users) with a calculator icon, description: "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." and a note "(*) eToolsFXM has not yet been available." 4. MyAdminFXM (Administration Focal Point ONLY) with a gear icon, description: "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." and a note "(*) MyAdminFXM has not yet been available."

eQueryFXM

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

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

Status Recorded Pending

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eQueryFXM – Menu Selection

Menu Selection (fragment)

- **All (FXM)** All FXM assignments/notices (MIFR + PLAN + Common Frequencies)
- **All MIFR (FXM)** All FXM MIFR assignments/notices (MIFR only)
- **All PLAN (FXM)** All FXM PLAN allotments/assignments/notices (PLAN only)
 - GE06L GE06L Plan assignments/notices
 - GE85M GE85M Plan assignments/notices
 - GE85N GE85N Plan assignments/notices
 - AP25 AP25 allotment Plan
 - AP26 AP26 allotment Plan
 - AP27 AP27 allotment Plan
- **Com Freq** All FXM common frequencies (Common Frequencies only)

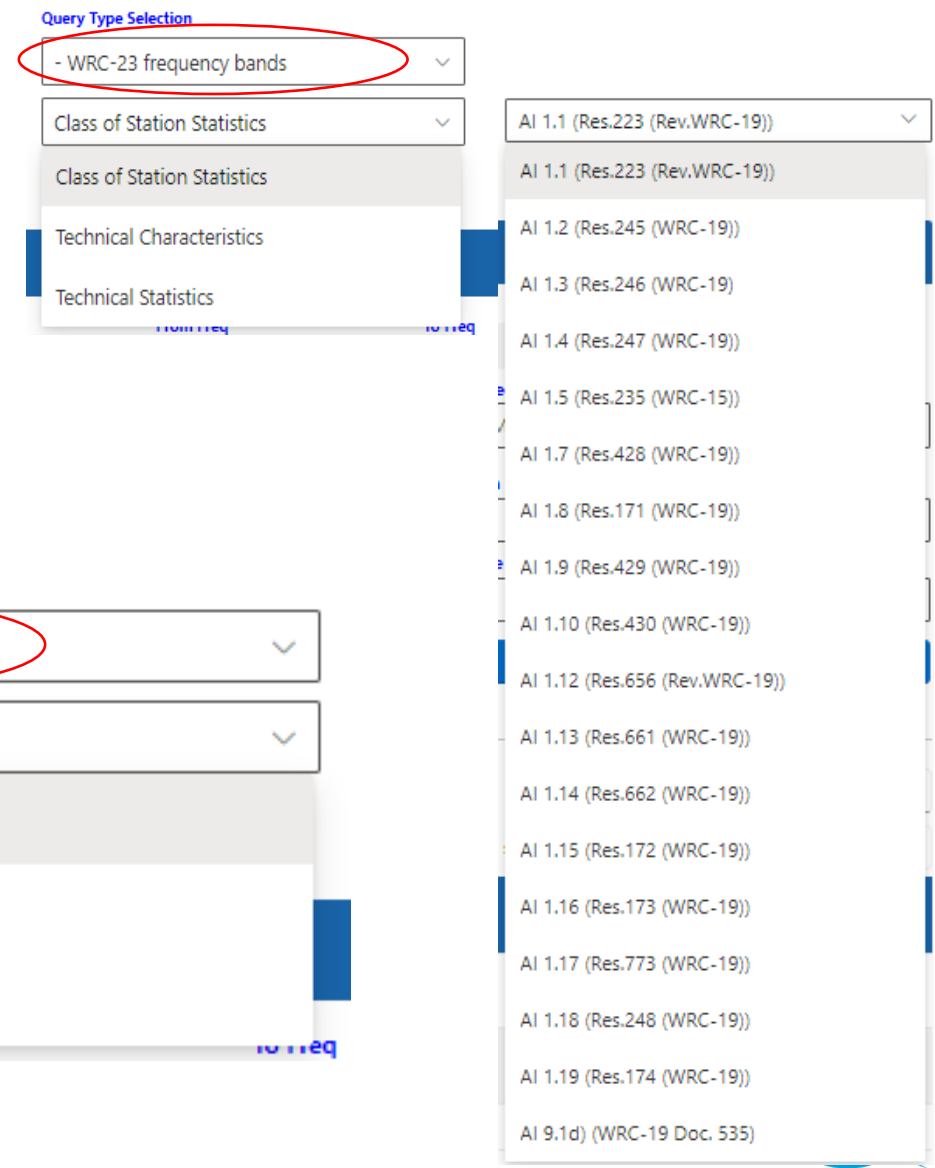
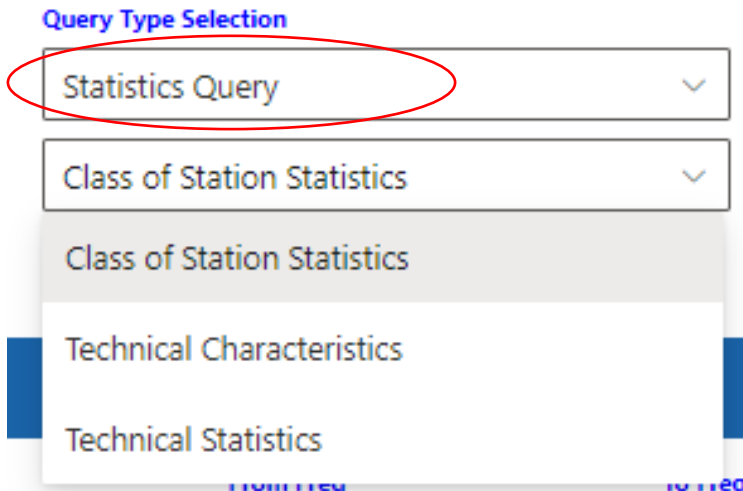
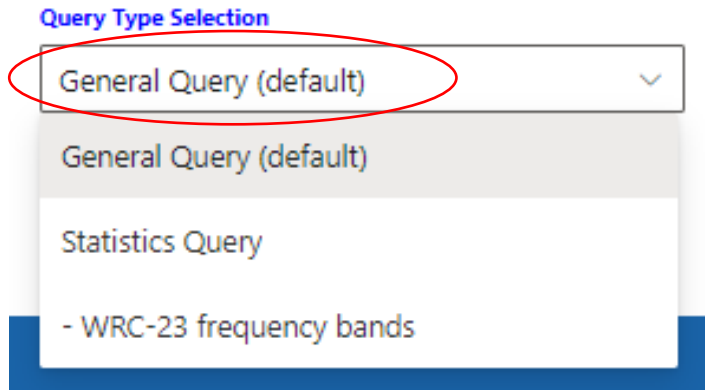
Menu Selection

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

eQueryFXM – Query Type Selection

Query Type Selection

- **General Query (default)**
- **Statistics Query**
 - Class of Station Statistics
 - Technical Characteristics
 - Technical Statistics
- **-WRC-23 frequency bands**
(may be used in sharing and compatibility studies under WRC-23 agenda items)



eQueryFXM – Search Criteria

Search Criteria

- Available search criteria are different by fragments (not applicable search criteria are greyed out)
- At least one of search criteria should be filled to perform Query.
- “Frequency bandwidth overlap”
If selected, includes records whose bandwidths are within indicated frequency range even though assigned frequencies are outside frequency range.

- **Search criteria are maintained** when you change “Query Type Selection” and/or “Menu Selection”
- **Search results are cleared** if you modify/edit any search criteria.

The screenshot shows the 'Search Criteria' form with the following fields and options:

- Administration:** AFG, AFS, AGL, ALB, ALG
- Geographic Area:** ABW, AFG, AFS, AGL, AIA
- Notice Type:** T11, T12, T13, T14, T15
- Station Class:** AL, AM, BC, FA, FB
- Frequency Unit:** MHZ
- From Freq:** [Text input]
- To Freq:** [Text input]
- Date of Receipt (From):** dd/MM/yyyy
- Date of Receipt (To):** dd/MM/yyyy
- BR Assign Id (From):** [Text input]
- BR Assign Id (To):** [Text input]
- Unique Id. code given by Administration:** [Text input]
- Site Name:** [Text input]
- Region:** [Dropdown menu]
- Status:** Recorded, Pending
- Frequency bandwidth overlap:**
- Buttons:** Apply, Clear

eQueryFXM – Apply/Clear buttons

Apply/Clear buttons

- Query can be performed by clicking “Apply” button after filling in necessary search criteria. “Apply” button is enabled when at least one of search criteria is filled.
- Click “Clear” button to reset all search criteria

Warning message is displayed if you are about to perform heavy query (too many search results) in order to avoid excessive server load.

The screenshot shows the 'Search Criteria' form with the following fields and options:

- Administration:** AFG, AFS, AGL, ALB, ALG
- Geographic Area:** ABW, AFG, AFS, AGL, AIA
- Notice Type:** T11, T12, T13, T14, T15
- Station Class:** AL, AM, BC, FA, FB
- Frequency Unit:** MHz
- From Freq:** [Empty text box]
- To Freq:** [Empty text box]
- Date of Receipt (From):** dd/MM/yyyy
- Date of Receipt (To):** dd/MM/yyyy
- BR Assign Id (From):** [Empty text box]
- BR Assign Id (To):** [Empty text box]
- Unique Id. code given by Administration:** [Empty text box]
- Site Name:** [Empty text box]
- Region:** [Empty dropdown menu]
- Status:** Recorded, Pending
- Buttons:** Apply (highlighted with a red oval), Clear

eQueryFXM – Search Results (1)

Query Type Selection: "General Query (default)"

Menu Selection

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

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

Query Type Selection
General Query (default)

Search Criteria

Administration
AFG >> > < <<
AFS >
AGL <
ALB <<
ALG

Geographic Area
ABW >> > < <<
AFG >
AFS <
AGL <<
AIA

Frequency Unit
MHz

From Freq
100

To Freq
102

Frequency bandwidth overlap

Date of Receipt (From)
dd/MM/yyyy

Date of Receipt (To)
dd/MM/yyyy

Notice Type
T11 >> > < <<
T12 >
T13 <
T14 <<
T15

Station Class
AL >> > < <<
AM >
BC <
FA <<
FB

BR Assign Id (From)

BR Assign Id (To)

Unique Id. code given by Administration

Site Name

Region

Status Recorded Pending

Export/Print

Click **BRID** to display detail assignment information

Number of records to be displayed in one page

Text search

eFXM Result

Excel Export PDF Export Print (current page)

Showing 1 to 63 of 63 entries

Page size 200 Page: 1 / 1

BRID	ADM Unique ID	ADM	Geo Area	Region	Site Name	Geo. Coord	Assign. Freq (MHz)	Bw. Code	Intent	Notice Type	Class Of Sta.	Class Of Emis.	Call Sign	Hours Of Ops.	Receipt Date	Channel	Std/ Allot. Area	Fragment
080214311		AFS	AFS	1	JOHANNESB	28°03'00"E - 26°11'00"S	100	16K0	RECORDED	1A1	SS	F3E--	ZUO	00:00-24:00				NTFD_RR
080214316		BRM	BRM	3	YANGON	96°05'00"E - 16°55'00"N	100	10K0	RECORDED	1A1	FX	A3E--	XZK33	00:00-24:00				NTFD_RR
080214332		NZL	NZL	3	AUCKLAND	174°47'00"E - 36°54'00"S	100.025	6K00	RECORDED	1A1	FB	A3E--		00:00-24:00				NTFD_RR
080214333		NZL	NZL	3	AUCKLAND	174°47'00"E - 36°54'00"S	100.025	6K00	RECORDED	1B1	ML	A3E--		00:00-24:00				NTFD_RR



eQueryFXM – Search Results (2)

detail assignment information in “General Query (default)” view

- Detail information of selected assignment/notice is displayed in separate tab (up to 5 assignments/notices) by clicking BRID in eFXM Result table.
- Available only in “General Query (default)” view.

Print

eFXM Result 080214311 080214316 080214333

Print

FXM - Recorded Assignment - AFS - NTFD_RR - 080214311 (!FMS)

Administrative Data			
Source notice type	1A1	Date of entry into the MIFR	09/03/1976
Date of notice		Fragment	NTFD_RR
Date notice received		Provision	RR11.2
Notifying Administration	AFS	Operating agency	001
Identifier assigned by the BR	080214311	Address code	A
Unique identification code given by the administration		Date of bringing into use	30/09/1975
Amendment type	RECORDED	Regular hours of operation	00:00-24:00
Modification type		Examination category	!FMS

Emission Characteristics			
Assigned Frequency (MHz)	100	Energy dispersal (kHz)	
Reference (carrier) Frequency (MHz)		Channel number	
Class of emission	F3E--	Preferred band (MHz)	
Nature of service		Preferred channel	

eQueryFXM – Search Results (3)

Query Type Selection: "Statistics Query" > "Class of Stations Statistics"

Provide statistics of class of stations by fragments and radiocommunication regions

* AP25, AP26, AP27 Allotment Plans and common frequencies are not included.

Excel Export PDF Export Print (current page)

Search

Showing 1 to 4 of 4 entries

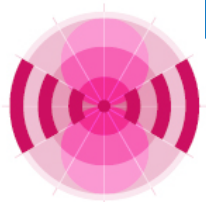
Page size 200

Page: 1 / 1

Frequency Range	Fragment	Region 1	Region 2	Region 3	Antarctic (Y)
0.1-200 MHz	GE06L	FB (785), ML (2783)	none	FB (186), FX (1)	none
0.1-200 MHz	GE85M	AL (813), FC (2022)	none	none	none
0.1-200 MHz	GE85N	NL (515)	none	none	none
0.1-200 MHz	NTFD_RR	AL (6477), AM (437), BC (634), FA (6085), FB (77441), FC (23640), FD (5431), FG (17886), FL (17), FP (265), FX (115680), LR (62), MA (2106), ML (45400), MO (2), MR (7), MS (13263), NL (1108), RN (26), SA (20), SM (19), SS (55)	AL (6629), BC (300), FA (13193), FB (90832), FC (26981), FD (4355), FG (17362), FL (865), FP (87), FX (171653), LR (32), MA (3555), ML (26705), MO (7), MS (8458), NL (617), OE (114), RM (1), SS (24)	AL (3732), AM (96), BC (1101), FA (10104), FB (118235), FC (13889), FD (5217), FG (8581), FL (105), FP (124), FX (84970), LR (38), MA (377), ML (82581), MO (3579), MR (8), MS (2778), NL (384), OD (3), SA (4), SM (1), SS (35)	AL (11), FA (43), FB (78), FC (131), FG (144), FP (1), FX (649), MA (5), ML (4), SM (1)

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(Example) Menu Selection: All (FXM), Frequency Range: 0.1 – 200 MHz,
Query Type Selection: **Statistics Query** > **Class of Stations Statistics**



eQueryFXM – Search Results (4)

Query Type Selection: "Statistics Query" > "Technical Statistics"

Provide minimum, maximum and average of technical characteristics, calculated by radiocommunication regions and class of stations.

* AP25, AP26, AP27 Allotment Plans and common frequencies are not included.

Excel Export PDF Export Print (current page) Search

Showing 1 to 25 of 25 entries Page size 200 Page: 1 / 1

Number of assignment			Bandwidth (MHz)			Radiated power (dBW)			Radiated power density (dBW/MHz)			Power delivered to antenna (dBW)			Maximum antenna gain (dBi)			Antenna height above ground (m)		
Region	Station	Number	Min	Max	Avr	Min	Max	Avr	Min	Max	Avr	Min	Max	Avr	Min	Max	Avr	Min	Max	Avr
1	AL	2037	1E-06	3	0.0234	2.6	42	18.4364	18.2	94	40.1238	1.8	29	15.5954	0	40	9.0545	2	300	20.1071
1	AM	435	0.016	0.025	0.0209	3	20	6.9009	21	36	23.7948	3	20	4.1883	n/a	n/a	n/a	n/a	n/a	n/a
1	FA	1120	0.001	0.036	0.0061	-1.2	50.2	15.441	21	72.4	37.7186	-1.2	50.2	15.3823	0	6	0.9787	10	236	71.7632
1	FB	552	0.006	0.18	0.0155	0	20	10.2729	14.4	36.2	32.3154	0	20	13.8207	n/a	n/a	n/a	n/a	n/a	n/a
1	FD	218	0.005	0.025	0.0061	5.8	23	15.2847	28	46	37.4744	4.8	20	13.8221	0	4.2	2.8213	2	225	29.9316
1	FX	6	0.0001	0.18	0.039	3	25	15.4333	25.2	47.2	36.8566	3	17	11.6	1	8	5.75	n/a	n/a	n/a
1	LR	1	14	14	14	n/a	n/a	n/a	n/a	n/a	n/a	37	37	37	12	12	12	n/a	n/a	n/a
1	MA	267	0.005	0.025	0.0086	0.9	24	12.2481	23.1	46.2	33.6266	7	24	12.4028	n/a	n/a	n/a	n/a	n/a	n/a
1	ML	4	0.036	0.18	0.144	0	20	15	14.4	27.4	24.1947	0	20	15	n/a	n/a	n/a	n/a	n/a	n/a
1	SS	1	0.016	0.016	0.016	19	19	19	37	37	36.9588	19	19	19	n/a	n/a	n/a	n/a	n/a	n/a
2	AL	1411	0.0003	0.05	0.0152	-10	50	23.8368	21	66	42.9486	-10	50	21.1744	0	12	3.7076	4	6	4.4



eQueryFXM – Search Results (5)

Query Type Selection: "Statistics Query" > "Technical Characteristics"

Provide technical characteristics of each antenna operation of all assignments/notices

* AP25, AP26, AP27 Allotment Plans and common frequencies are not included.

Excel Export PDF Export Print (current page) Search

Showing 1 to 200 of 9813 entries Page size 200 Page: 1 / 50

General Information					Technical Characteristics																	
adm	region	assgn id	ant	fragment	freq assgn	bw MHz	stn cls	lat dec	lon dec	gain max	gain type	polar	ant dir	hgt agl	azm max e	elev	pwr ant	pwr dbw	noise temp	RX geo pt	RX lat dec	RX lon dec
AFS	1	080214311	1	NTFD_RR	100	0.016	SS	-26.18	28.05	n/a	n/a	n/a	ND	n/a	n/a	n/a	19	19	n/a	1	-26.18	28.05
AUS	1	093002435	1	NTFD_RR	100	14	LR	-66.28	110.51	12	D	n/a	D	n/a	0	n/a	37	n/a	n/a	1	-66.27	110.5
BRM	3	080214316	1	NTFD_RR	100	0.01	FX	16.92	96.08	2	D	n/a	ND	n/a	n/a	n/a	24	26	n/a	1	16.92	96.08
NZL	3	080214332	1	NTFD_RR	100.025	0.006	FB	-36.9	174.78	n/a	n/a	n/a	ND	n/a	n/a	n/a	14.8	14.8	n/a	1	-36.9	174.78
NZL	3	080214333	1	NTFD_RR	100.025	0.006	ML	-36.9	174.78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	14.8	14.8	n/a	n/a	n/a	n/a
NZL	3	080214364	1	NTFD_RR	100.1	0.006	FB	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	14.8	n/a	n/a	n/a	n/a	n/a
USA	2	080214511	1	NTFD_RR	100.42	0.92	FX	21.15	-157.03	n/a	n/a	n/a	ND	n/a	n/a	n/a	n/a	23	n/a	1	20.25	-155.88
USA	2	080214511	1	NTFD_RR	100.42	0.92	FX	21.15	-157.03	n/a	n/a	n/a	ND	n/a	n/a	n/a	n/a	23	n/a	1	20.25	-155.88
NZL	3	080214559	1	NTFD_RR	100.525	0.006	FB	-36.9	174.78	n/a	n/a	n/a	ND	n/a	n/a	n/a	14.8	14.8	n/a	1	-36.9	174.78
NZL	3	080214560	1	NTFD_RR	100.525	0.006	ML	-36.9	174.78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	14.8	14.8	n/a	n/a	n/a	n/a

(Example) Menu Selection: All (FXM), Frequency Range: 0.1 – 200 MHz,
Query Type Selection: **Statistics Query** > **Technical Characteristics**

eQueryFXM – Export/Print

- **Export functions (MS Excel format, PDF format) and Print function are available to for Search Results of all Query Type Selections.**
- **Search Results are exported together with Query Parameters.**
 - **Excel Export**
 - Possible to export **up to 100,000 records**
 - **PDF Export**
 - Possible to export **up to 10,000 records**
 - If it exceeds 10,000 records, only displayed page is exported,
 - **Print**
 - Print **only currently displayed page**
- **Print function is also available for detail assignment page in “General Query (default)” view.**

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



Exercise (preparation)

- Login to [eTerrestrial](#) (TIES account)
if you do not have a TIES account, use the following temporary guest account:
username: **password:**
- Go to eFXM
- Go to eQueryFXM
- Explore search criteria in the eQueryFXM page. (please refer to “eQueryFXM Readme” on top right for details)



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

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

Query Type Selection

General Query (default) ▾

Search Criteria

Administration

AFG AFS AGL ALB ALG AND

Geographic Area

ABW AFG AFS AGL AIA ALB

Notice Type

T11 T12 T13 T14 T15 T16

Station Class

AL AM BC FA FB FC

Frequency Unit

MHz ▾

From Freq

To Freq

Frequency bandwidth overlap

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

Exercise (1) General Query

- Set Query Type Selection to "General Query (default)"
- Retrieve the record of the following criteria
 - Administration: Your administration (or administration of your preference)
 - Fragment: ALL MIFR (FXM)
 - Notice Type: T11
 - Frequency Range: 1 GHz – 3 GHz
 - Date of Receipt: 01 March 2015 – 30 November 2020
 - Status: both Recorded assignments and Pending notices
- Browse notice/assignment details by clicking BR ID numbers
- Print notice/assignment detail of your choice (print to PDF)
- Export the information by both Excel and PDF formats.

Exercise (2) General Query

- Press “Clear” to reset all search criteria
- Set Query Type Selection to “General Query (default)”
- Retrieve the record of the following criteria
 - Fragment: ALL PLAN (FXM)
 - Frequency Range: 0.1 MHz – 200 MHz
 - Status: Recorded assignments
- Change Fragment to “GE06L”, “GE85M”, “GE85N”, “AP25”, “AP26”, “AP27” and “Com Freq” in Menu Selection and retrieve the records
- Verify the following:
 - Result records are cleared when search criteria are modified
 - Input search criteria is kept
 - Not applicable search criteria are greyed out

Exercise (3) Statistics Query

- Keep Press “Clear” to reset all search criteria
- Set Query Type Selection to “Statistics Query” and “Class of Station Statistics”
- Retrieve the record of the following criteria
 - Fragment: ALL (FXM)
 - Frequency Range: 600 MHz – 800 MHz
- Change sub-menu of Query Type Selection from “Class of Station Statistics” to “Technical Characteristics”
- Retrieve the record with the same criteria
- Change sub-menu of Query Type Selection from “ Technical Characteristics” to “Technical Statistics”
- Retrieve the record with the same criteria

Exercise (4) WRC-23 frequency bands

- Press “Clear” to reset all search criteria
- Set Query Type Selection as follows:
 - 1st menu ”- WRC-23 frequency bands”
 - 2nd menu “Class of Station Statistics”
 - 3rd menu: AI 1.8
- Retrieve the record and verify
 - “none” if no assignment/notice in the frequency band and region
 - “**n/a**” if not applicable with regard to selected agenda item
- Set Query Type Selection as follows:
 - 1st menu ”- WRC-23 frequency bands”
 - 2nd menu “Class of Station Statistics”
 - 3rd menu: AI 1.5
- Retrieve the record and verify
 - Shows only GE06L assignment/notice if change fragment (Menu Selection) to “GE06L”
- Do the same for 2nd menu “Technical Characteristics” and “Technical Statistics”
 - Menus of WRC-23 agenda items are separated by each in-band frequency band.