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Barbados, 21 – 25 May 2012

**Workshop on
Terrestrial TV notification**


**TerRaQ and TerRanotices overview
Exercises ☹ !!!**

Ilham Ghazi – BR/ITU

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Document WRS08/PRES/40-E
English only



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TerRaSys

Terrestrial Application Software (TAS) Division
Informatics, Administration and Publications (IAP) Department
Radiocommunication Bureau

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TerRaSys

Terrestrial Radiocommunication System

Goals:

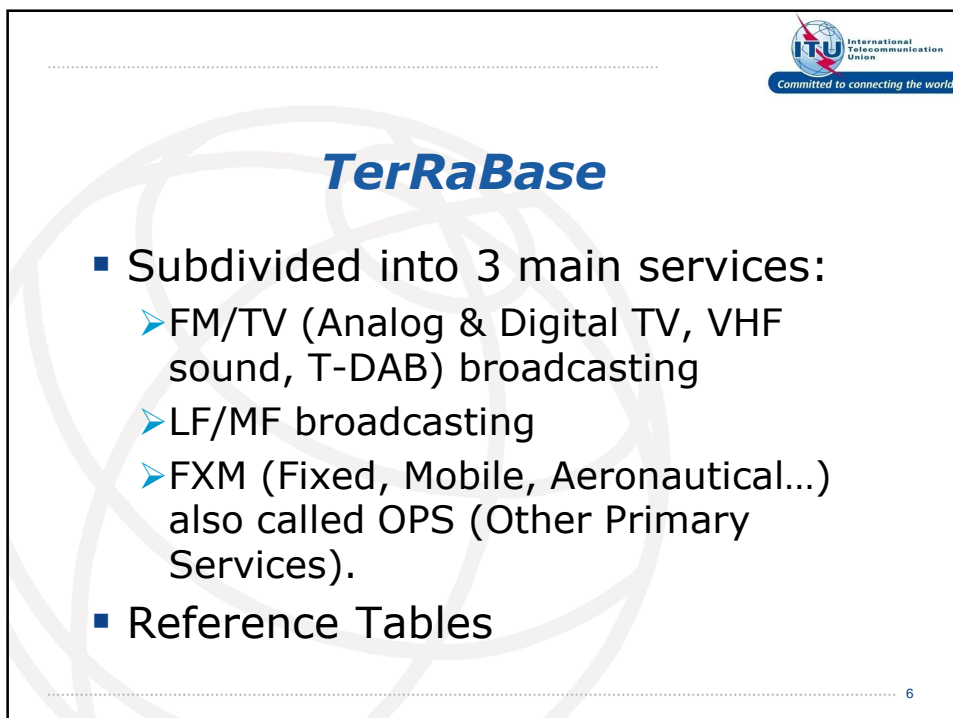
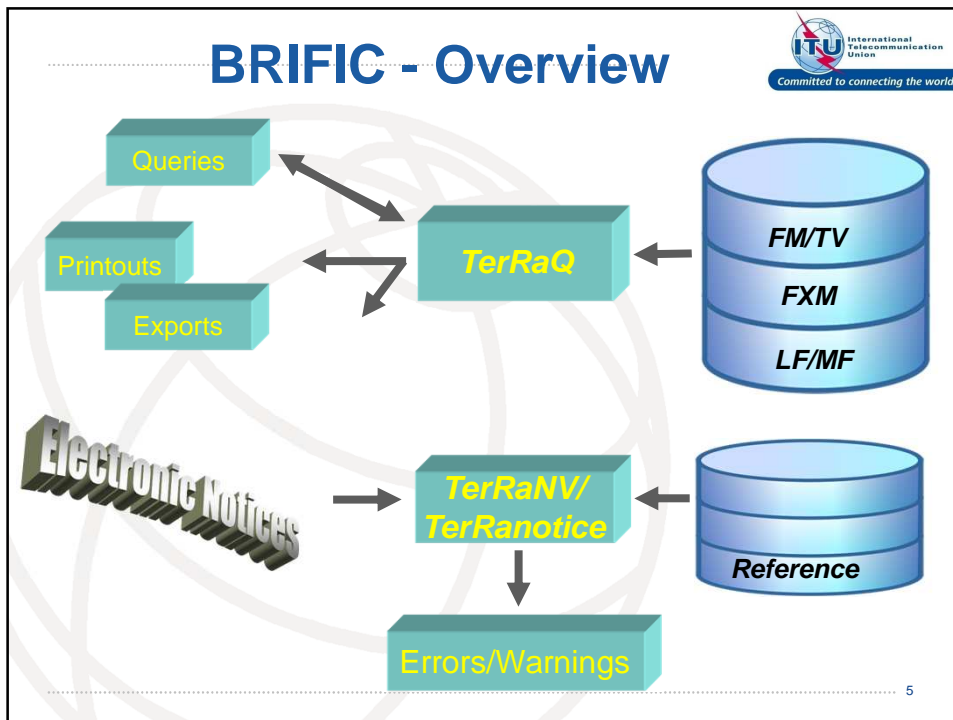
- Handle *all* the terrestrial notifications inside and outside the ITU
- Update and maintain the *Master Register* and the various *Terrestrial Plans*




The BR IFIC on DVD-ROM

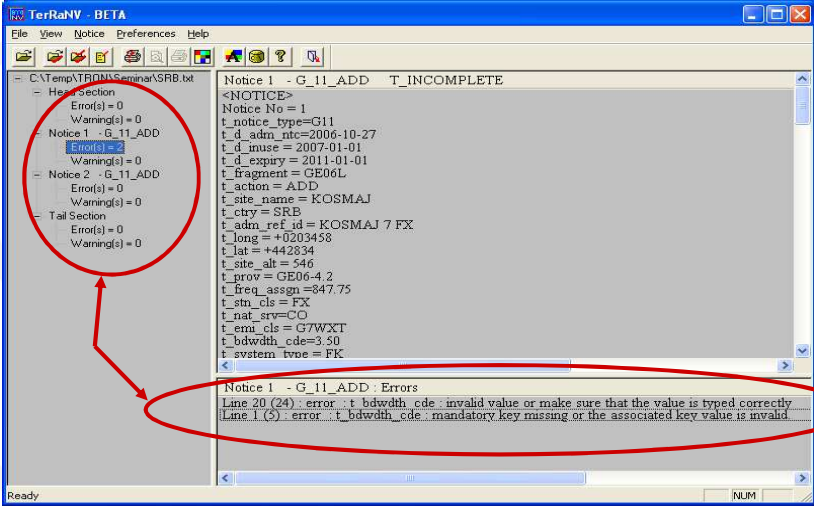
Contains:

- **TerRaBase** (full database in MS Access)
- **TerRaNV** : preliminary validation of electronic notices before submission to ITU
- **TerRaQ**: queries and exports from **TerRaBase**
- **TerRanotice**: creation and validation of notices




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TerRaNV

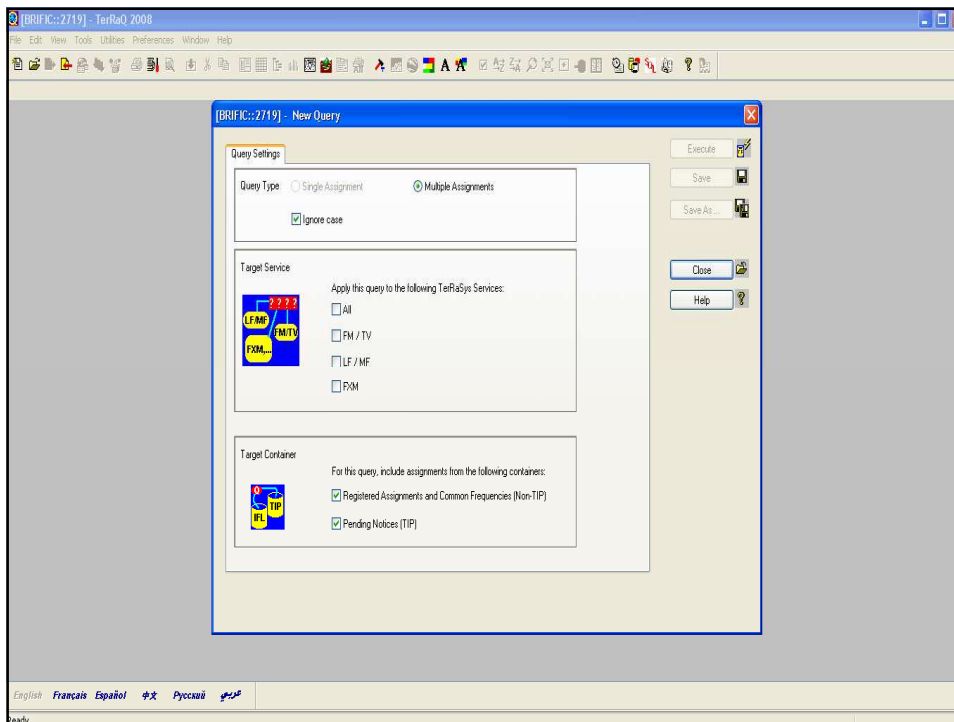
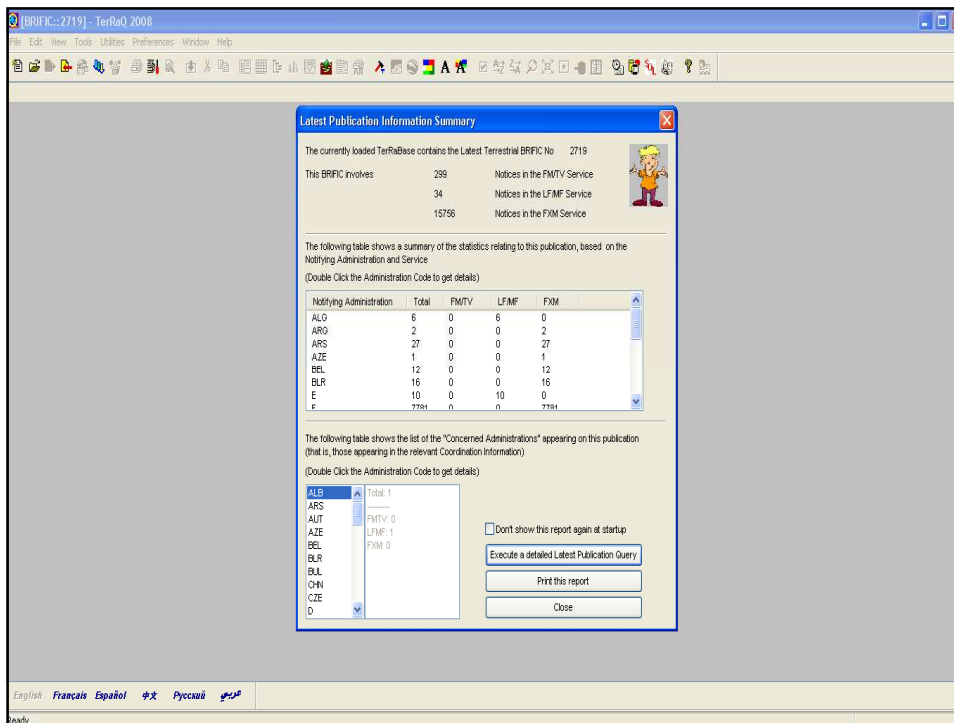


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TerRaQ

- Sophisticated tool to
 - Query **TerRaBase**
 - Display the query results providing various graphical means
 - Generate reports/make extracts
 - Display the examination results for notifications related to the GE06 Plan.



[BRFIC::2719] New Query - TerRaQ 2008

File Edit View Tools Utilities Preferences Window Help

No.	AssignID	Adm	Std./Allot. Area	Geo. A.	Fragment	AssignFreq	Adm ...	GeoCoord	Intent	StnClass	SiteName	RevDate
1	000002431	USA		VIR	ART 11	515.0000...	--	64°40'00" W; 17°44'00" N	RECORDED	BT	CHRISTIANSTED	02-Feb-1988
2	000002432	USA		VIR	ART 11	527.0000...	--	64°47'00" W; 17°45'00" N	RECORDED	BT	CHRISTIANSTED	02-Feb-1988
3	003002444	USA		VIR	ART 11	491.0000...	--	64°59'00" W; 18°21'00" N	RECORDED	BT	CHARLOTTE AMALIE	01-Jun-1993
4	003002446	USA		VIR	ART 11	785.0000...	--	64°53'00" W; 17°43'00" N	RECORDED	BT	FREDERIKSTED	01-Jun-1993
5	106021507	USA		VIR	ART 11	509.0000...	--	64°47'50" W; 17°45'21" N	RECORDED	BT	CHRISTIANSTED	15-Mar-2006
6	106021588	USA		VIR	ART 11	527.0000...	--	64°43'40" W; 17°44'40" N	RECORDED	BT	CHRISTIANSTED	15-Mar-2006
7	106021593	USA		VIR	ART 11	647.0000...	--	64°55'40" W; 18°20'43" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006
8	106021594	USA		VIR	ART 11	653.0000...	--	64°59'50" W; 18°21'28" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006
9	106021596	USA		VIR	ART 11	677.0000...	--	64°59'50" W; 18°21'28" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006

English Français Español 中文 العربية

9 row(s) found 9 row(s) marked

[BRFIC::2719] New Query - TerRaQ 2008

File Edit View Tools Utilities Preferences Window Help

CHH
Open...
Close

Export...
Import...
Recompile Database
Re-establish Main Database
Print...
Print Preview
Print Setup...
Last query
Exit

Std./Allot. Area	Geo. A.	Fragment	AssignFreq	Adm ...	GeoCoord	Intent	StnClass	SiteName	RevDate
	VIR	ART 11	515.0000...	--	64°40'00" W; 17°44'00" N	RECORDED	BT	CHRISTIANSTED	02-Feb-1988
	VIR	ART 11	527.0000...	--	64°47'00" W; 17°45'00" N	RECORDED	BT	CHRISTIANSTED	02-Feb-1988
	VIR	ART 11	491.0000...	--	64°59'00" W; 18°21'00" N	RECORDED	BT	CHARLOTTE AMALIE	01-Jun-1993
	VIR	ART 11	785.0000...	--	64°53'00" W; 17°43'00" N	RECORDED	BT	FREDERIKSTED	01-Jun-1993
	VIR	ART 11	509.0000...	--	64°47'50" W; 17°45'21" N	RECORDED	BT	CHRISTIANSTED	15-Mar-2006
	VIR	ART 11	527.0000...	--	64°43'40" W; 17°44'40" N	RECORDED	BT	CHRISTIANSTED	15-Mar-2006
	VIR	ART 11	647.0000...	--	64°55'40" W; 18°20'43" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006
	VIR	ART 11	653.0000...	--	64°59'50" W; 18°21'28" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006
	VIR	ART 11	677.0000...	--	64°59'50" W; 18°21'28" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006

English Français Español 中文 العربية

Export the result of the query to a file 9 row(s) found 9 row(s) marked

This exports to xsl file

[BRFIC.:2719] New Query - TerRaQ 2008


File Edit View Tools Utilities Preferences Window Help

No.	AssignID	Adm	Std./Allot. Area	Geo. A.	Fragment	AssignFreq	Adm ...	GeoCoord	Export Details	StrClass	SiteName	RevDate
1	008002431	USA		VIR	ART 11	515.0000...	--	64°40'00" W; 17°44'00" N	RECORDED	BT	CHRISTIANSTED	02-Feb-1988
2	008002432	USA		VIR	ART 11	527.0000...	--	64°40'00" W; 17°46'00" N	RECORDED	BT	CHRISTIANSTED	02-Feb-1988
3	003002444	USA		VIR	ART 11	491.0000...	--	64°50'00" W; 18°21'00" N	RECORDED	BT	CHARLOTTE AMALIE	01-Jun-1993
4	003002446	USA		VIR	ART 11	785.0000...	--	64°53'00" W; 17°43'00" N	RECORDED	BT	FREDERIKSTED	01-Jun-1993
5	106021507	USA		VIR	ART 11	505.0000...	--	64°47'50" W; 17°46'20" N	RECORDED	BT	CHRISTIANSTED	15-Mar-2006
6	106021588	USA		VIR	ART 11	527.0000...	--	64°43'40" W; 17°44'20" N	RECORDED	BT	CHRISTIANSTED	15-Mar-2006
7	106021593	USA		VIR	ART 11	647.0000...	--	64°55'40" W; 18°20'43" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006
8	106021594	USA		VIR	ART 11	653.0000...	--	64°05'50" W; 18°21'36" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006
9	106021596	USA		VIR	ART 11	677.0000...	--	64°50'50" W; 18°21'28" N	RECORDED	BT	CHARLOTTE AMALIE	15-Mar-2006

This exports to mdb file

English Français Español 中文 العربية

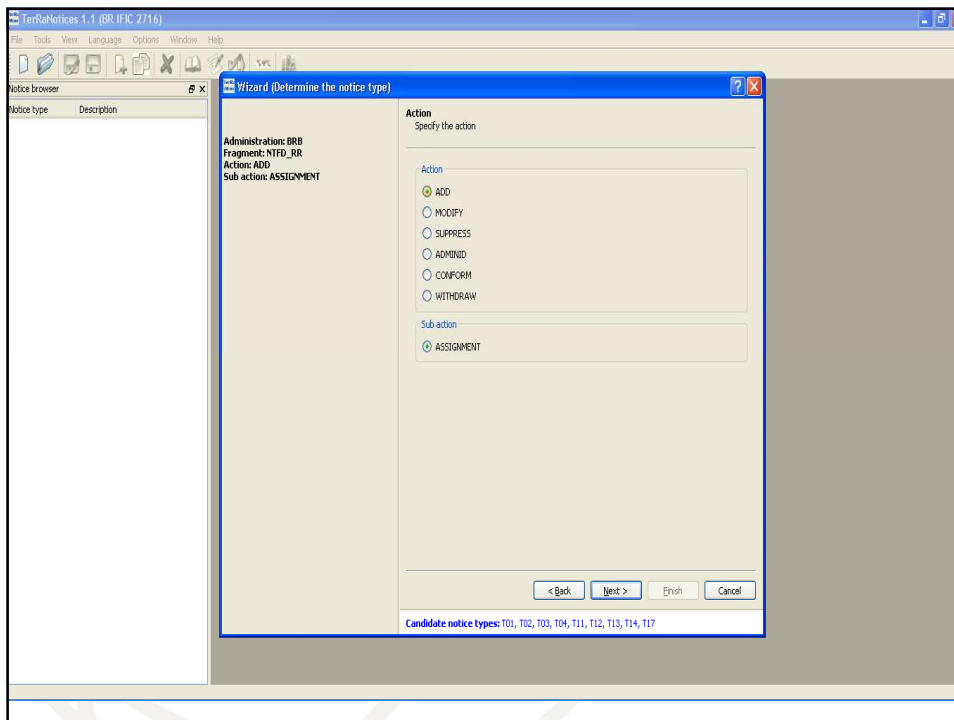
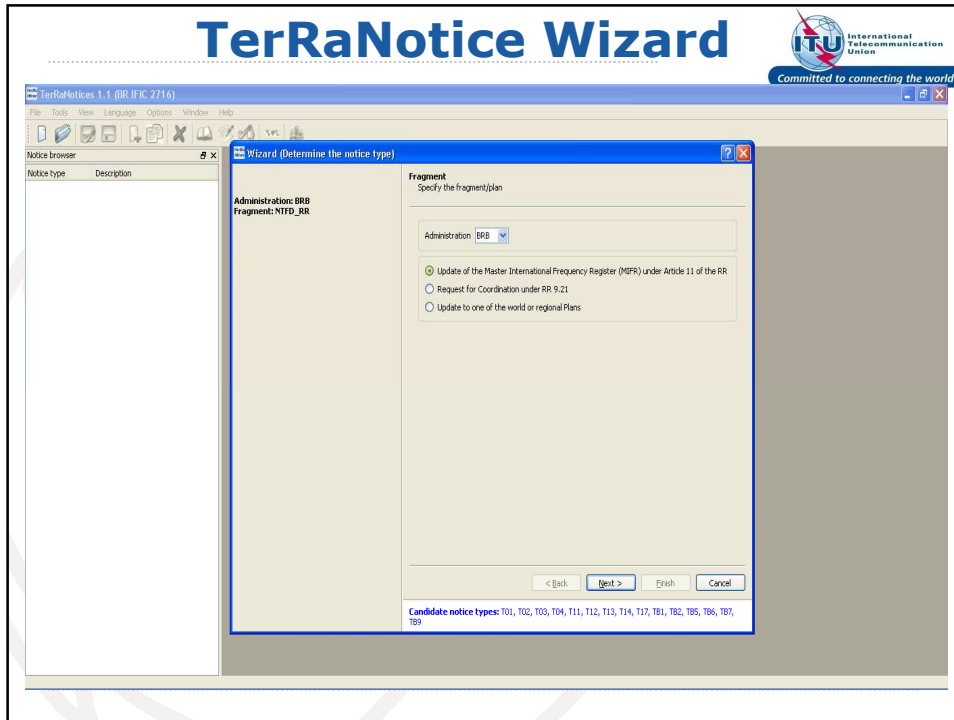
Export the details of the marked rows to an external container. 9 row(s) found. 9 row(s) marked.

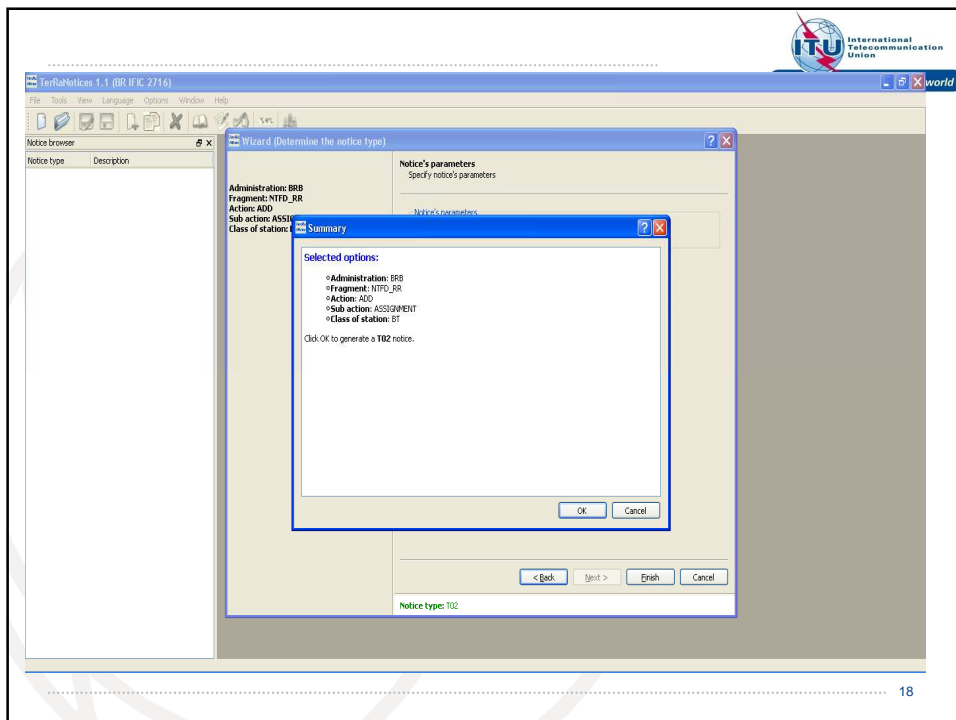
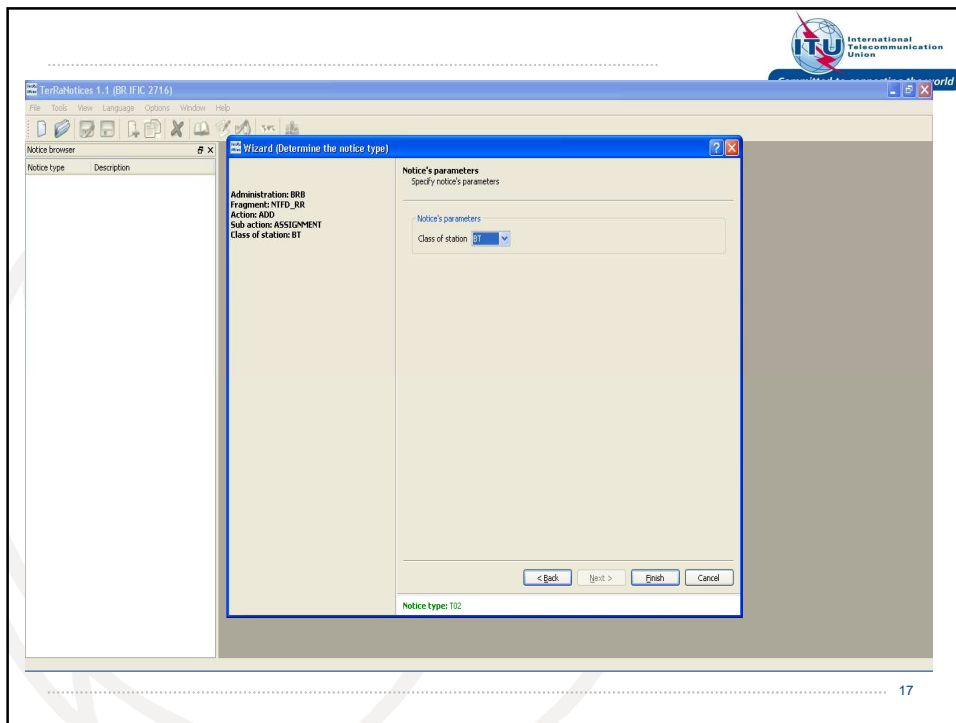

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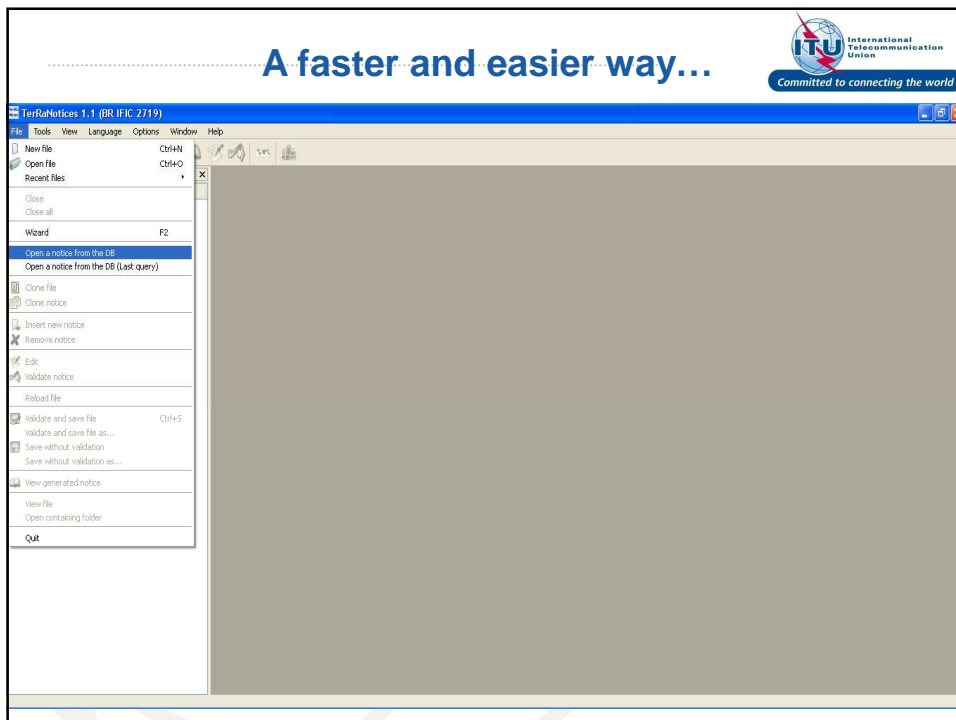
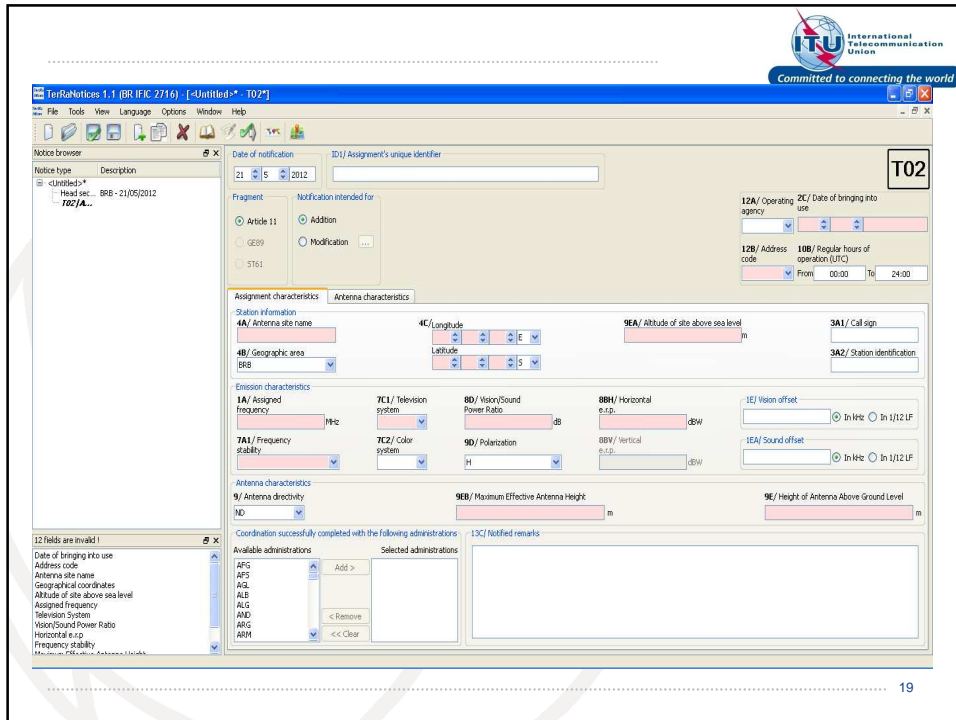
TerRaNotices

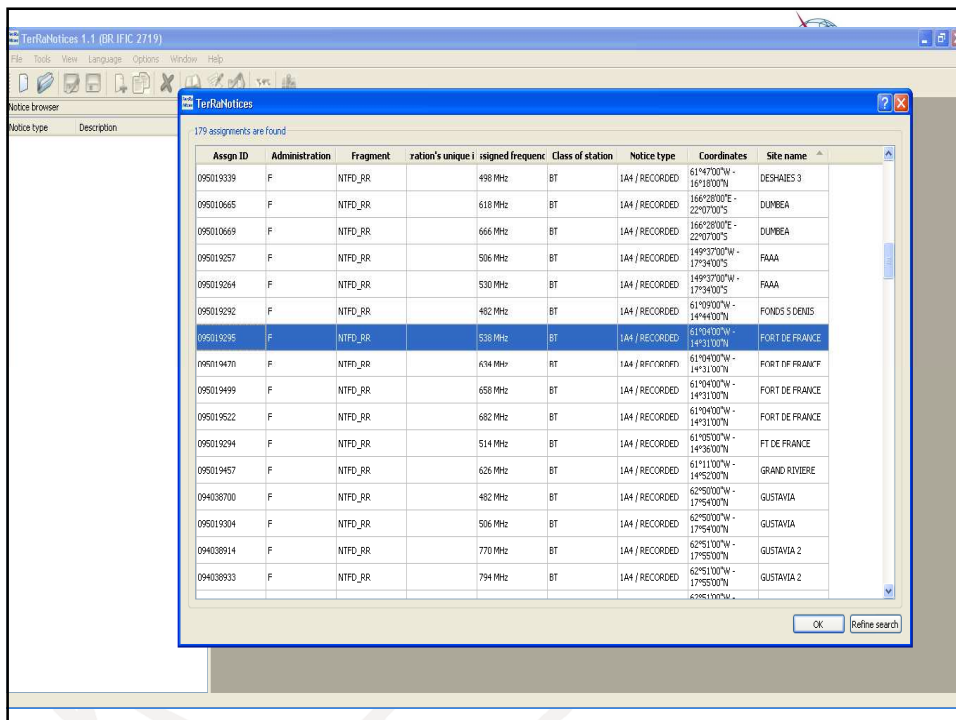
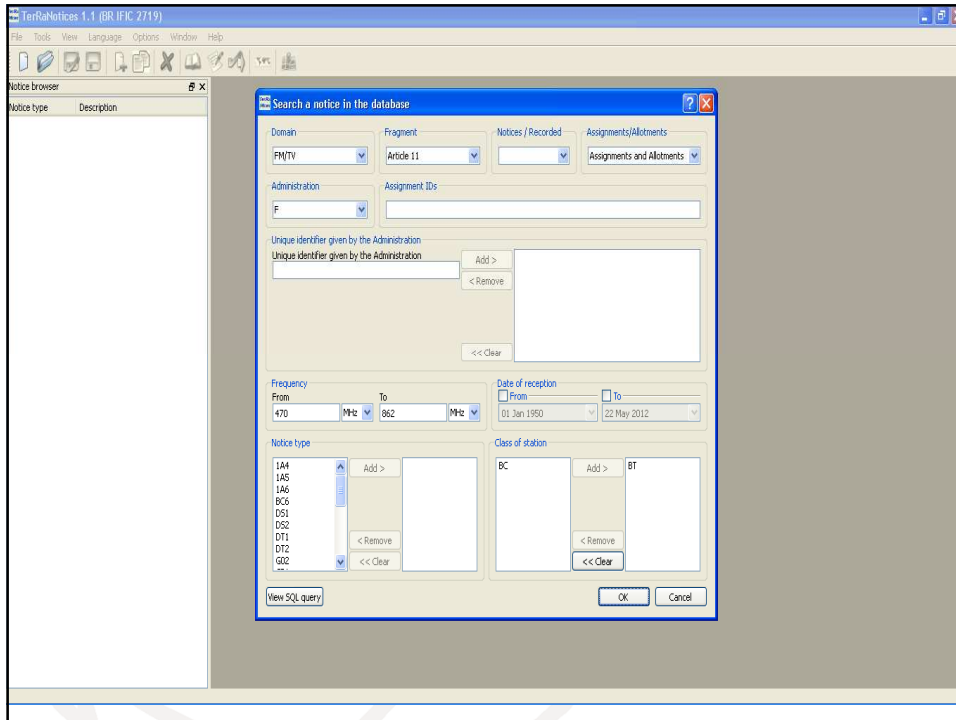
- **Data Capture & Validation** of Notices based on the parsing feature used in **TerRaNV**.
- **Interaction with TerRaBase:** Generate notices from the assignments/allotments/notices already in the database.
- **Decision aid/Wizard:** help administrations determine which notice type to use.

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TerRaNotices 1.1 (BR IFIC 2/19) - [Untitled* - T02*]

File Tools View Language Options Window Help

Notice browser: <Untitled>* Head sec... F T02JA...

Date of notification: [] ID: Assignment's unique identifier: T02

Fragment: Article 11 (selected) Notification intended for: Addition (selected)

12A/ Operating agency: 003 2C/ Date of bringing into use: 11/10/1994

12B/ Address code: A 10B/ Regular hours of operation (UTC): From 00:00 To 24:00

Assignment characteristics: Station information

4A/ Antenna site name: FORT DE FRANCE 4C/ Longitude: 61° 4' 0" W Latitude: 14° 31' 0" N 9EA/ Altitude of site above sea level: [] m 3A1/ Call sign: [] 3A2/ Station identification: []

Emission characteristics: 1A/ Assigned frequency: [] MHz 7C1/ Television system: K1 8D/ Vision/Sound Power Ratio: 10 dB 8B1/ Horizontal E.I.P.: 39 dBW 1E1/ Vision offset: 0 In kHz / 12 LF 7A1/ Frequency stability: NORMAL 7C2/ Color system: SECAM 9D/ Polarization: H 8B2/ Vertical E.I.P.: [] dBW 1E1A/ Sound offset: 0 In kHz / 12 LF

Antenna characteristics: 9/ Antenna directivity: D 9EB/ Maximum Effective Antenna Height: 450 m 9E/ Height of Antenna Above Ground Level: [] m

3 fields are invalid!
Altitude of site above sea level
Height of Antenna Above Ground Level
Horizontal Attenuation table

Coordination successfully completed with the following administrators

Available administrators: AFG, AFS, AGL, ALB, ALG, AND, APC, ARM

13C/ Notified remarks: []

TerRaNotices 1.1 (BR IFIC 2/19) - [Untitled* - T02*]

File Tools View Language Options Window Help

Notice browser: <Untitled>* Head sec... F T02JA...

Notice type: TB notices generator

Calculate Effective antenna heights (eff_hgt) using the SP1M3 Terrain Database

Date of notification: [] ID: Assignment's unique identifier: T02

Fragment: Article 11 (selected) Notification intended for: Addition (selected)

12A/ Operating agency: 003 2C/ Date of bringing into use: 11/10/1994

12B/ Address code: A 10B/ Regular hours of operation (UTC): From 00:00 To 24:00

Assignment characteristics: Station information

4A/ Antenna site name: FORT DE FRANCE 4C/ Longitude: 61° 4' 0" W Latitude: 14° 31' 0" N 9EA/ Altitude of site above sea level: [] m 3A1/ Call sign: [] 3A2/ Station identification: []

Emission characteristics: 1A/ Assigned frequency: [] MHz 7C1/ Television system: K1 8D/ Vision/Sound Power Ratio: 10 dB 8B1/ Horizontal E.I.P.: 39 dBW 1E1/ Vision offset: 0 In kHz / 12 LF 7A1/ Frequency stability: NORMAL 7C2/ Color system: SECAM 9D/ Polarization: H 8B2/ Vertical E.I.P.: [] dBW 1E1A/ Sound offset: 0 In kHz / 12 LF

Antenna characteristics: 9/ Antenna directivity: D 9EB/ Maximum Effective Antenna Height: 450 m 9E/ Height of Antenna Above Ground Level: [] m

2 fields are invalid!
Altitude of site above sea level
Height of Antenna Above Ground Level

Tables of Attenuations

9EC/ Table of Effective Height

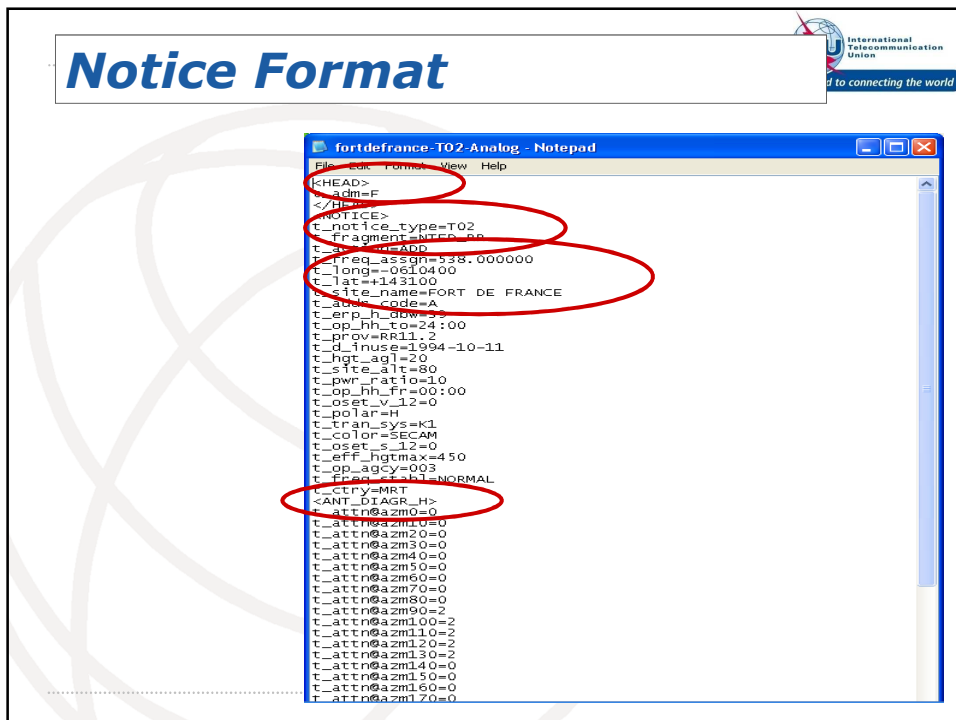
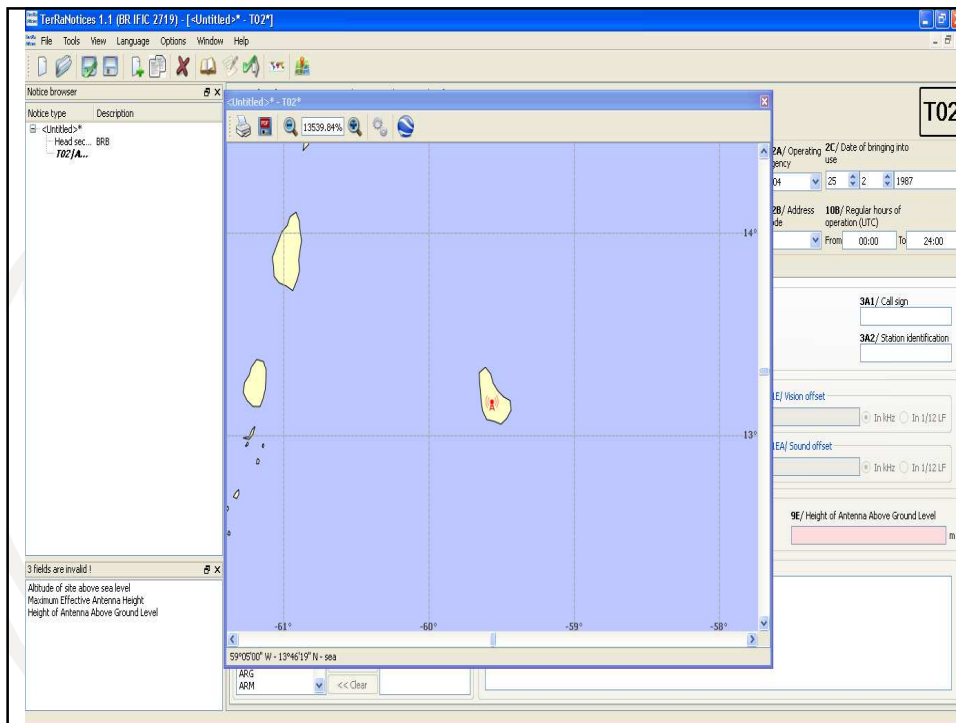
Height (m)
0°
10°
20°
30°
40°
50°
60°
70°
80°
90°
100°
110°
120°
130°
140°
150°
160°
170°


9NH/ Horizontal Polarization

Attenuation (dB)
180° 0
190° 0
200° 0
210° 0
220° 0
230° 0
240° 0
250° 0
260° 0
270° 0
280° 0
290° 0
300° 0
310° 0
320° 0.0
330° 0
340° 0
350° 0

9NV/ Vertical Polarization

Attenuation (dB)
0°
10°
20°
30°
40°
50°
60°
70°
80°
90°
100°
110°
120°
130°
140°
150°
160°
170°






Your turn!

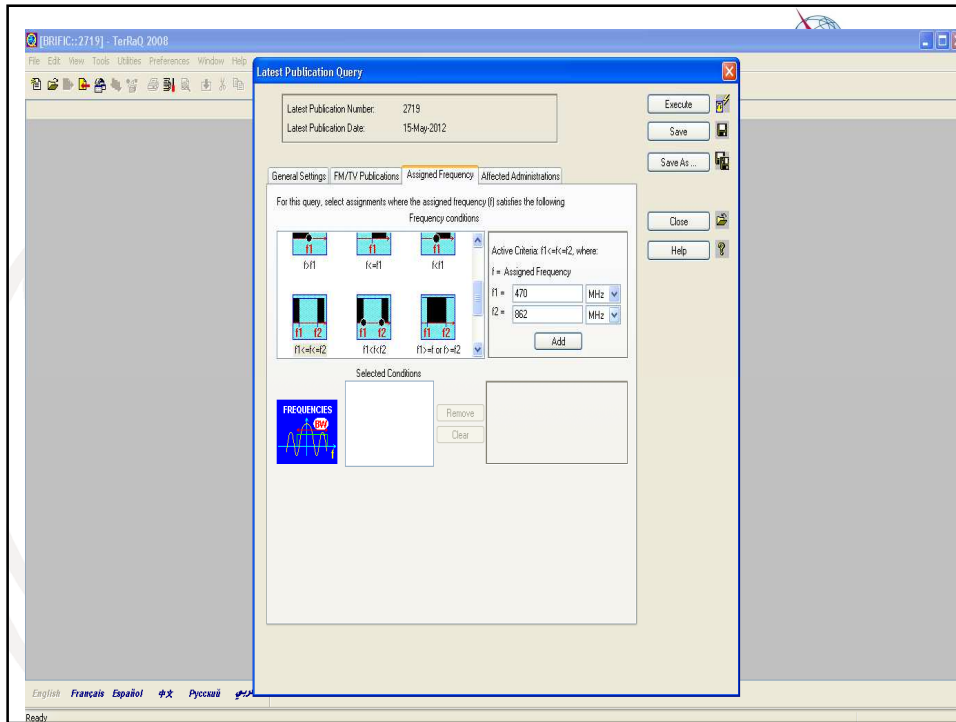
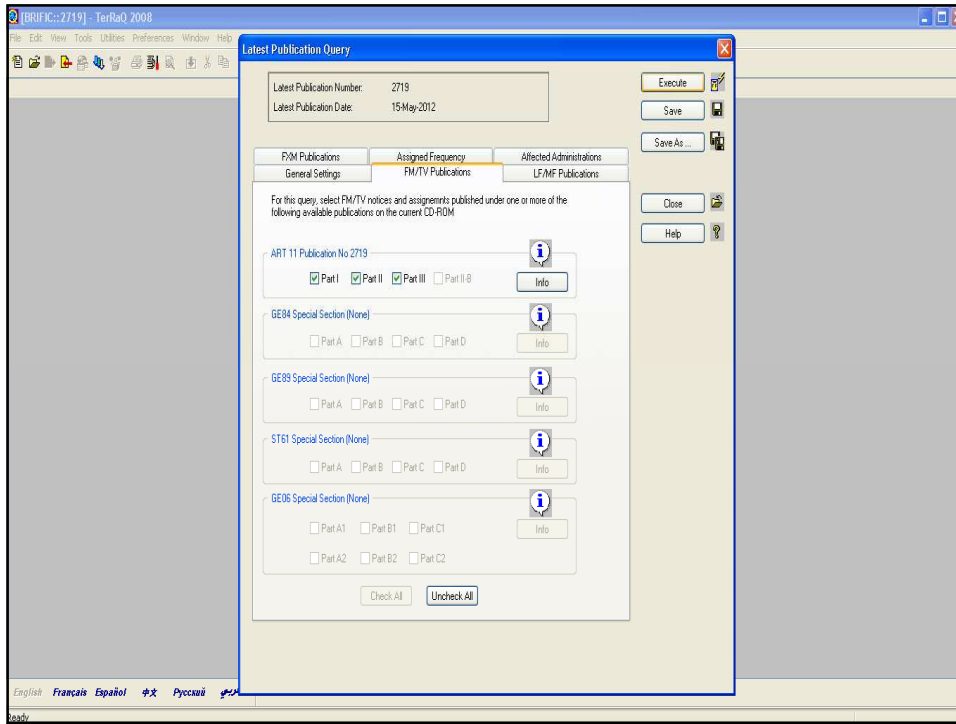
Exercises

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BRIFIC Queries

- 1. National extract**
 - Retrieve all the BT assignments recorded in the MIFR on behalf of your Administration in the band 470-862 MHz. If none, put CUBA as Adm.
 - Export the result in xsl and mdb format.
 - Retrieve all the FXM assignments recorded in the MIFR on behalf of your Administration in the band 698-862 MHz. If none, put CUBA as Adm.
 - Export the result in xsl and mdb format.
- 2. Notification to the BR during the last 3 years**
 - Retrieve all the assignments notified by your Administration during the last 10 years.
- 3. Pending Notices**
 - Find all BC proposed modifications and recorded assignments submitted pursuant to the RJ81 Agreement. **Hint:** check the box LF/MF in the 'Query settings'
- 4. Analysis of the content of BR IFIC 2633**
 - Retrieve all the FM/TV notices in the band 470-862 MHz published in BR IFIC 2719 ; Indicate those which are going to be recorded in the Master Register; Indicate those for which the Bureau has formulated an unfavourable finding.



Identification of correct analogue FMTV notice type by "fragment"


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Partition by fragments - segment analogue FMTV

Segment analogue FMTV is divided into following fragments with corresponding notice types in pursuance with applicable regional agreement or by radiocommunication Region and by requested action:

Fragment	Action	ADD/MOD	ADMINID	CONFORM	PART B	COORDINATION	SUPPRESS / WITHDRAW
5. ART.11 (XAA)		T01/T02	TB1				TB5

Notice creation

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- 1. Create a notice T02 for your country for an analogue TV station to be recorded in the MIFR**
 1. Create an another one with different frequency
 2. Validate the notices and save the file to your computer
- 2. Create an notice T02 for your country for a digital TV station to be recorded in the MIFR**
 1. Create an another one with different frequency
 2. Validate the notices and save the file to your computer
- 3. Create a TB5 for suppression from the MIFR of a recorded notice**

3. Submit the file through WISFAT as follows:

- <https://www.itu.int/net/ITU-R/submission/wisfat/Menu.aspx>
- Enter the ties address:
- Enter the password:

What next?

- Apply this for real when back home!
- You will have your assignments recorded and your channels protected and recognized!!!
- Thank you for your patience 😊
- Ilham.ghazi@itu.int