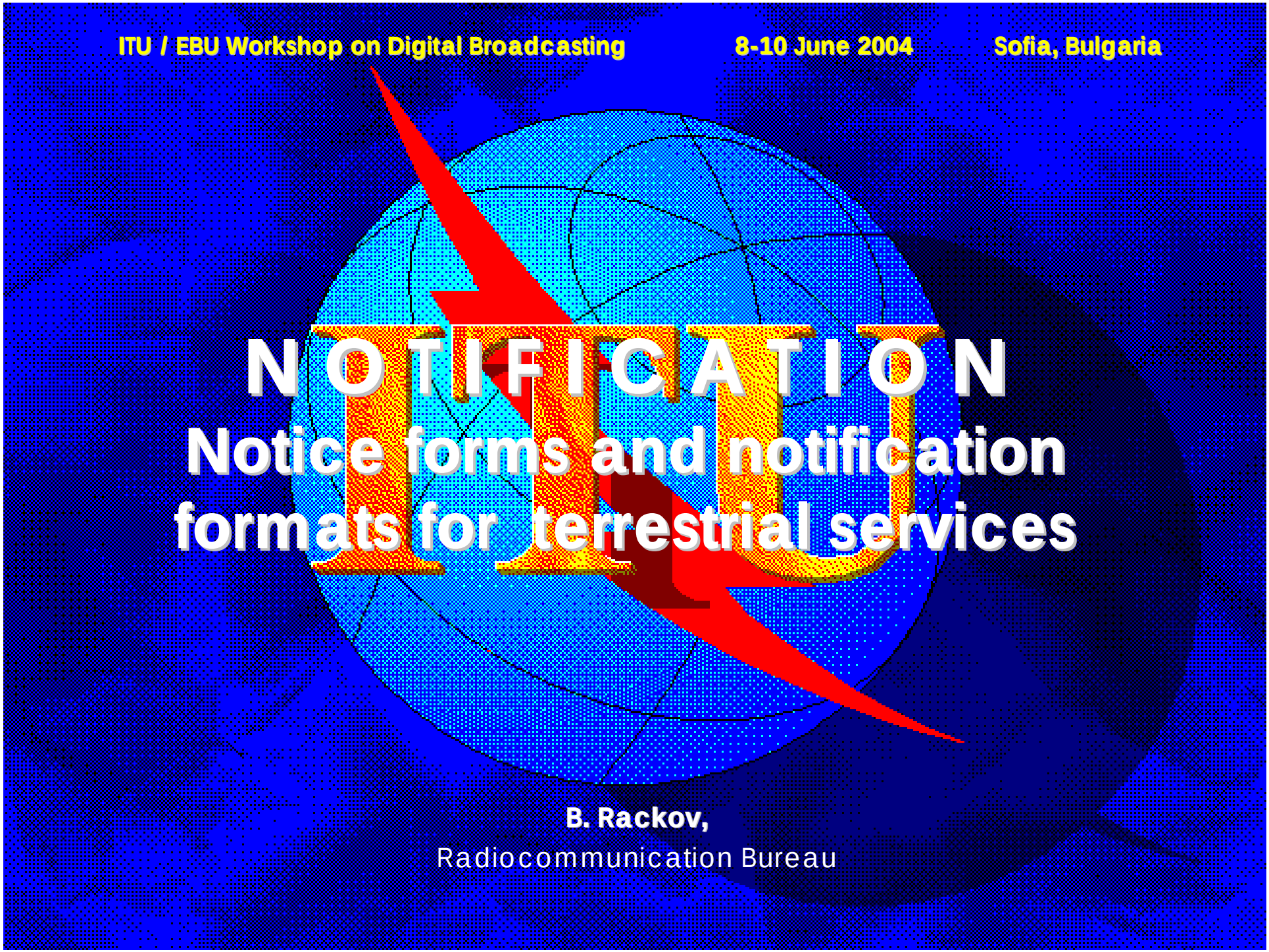
ITU / EBU Workshop on Digital Broadcasting 8-10 June 2004 Sofia, Bulgaria



NOTIFICATION

Notice forms and notification formats for terrestrial services

B. Rackov,
Radiocommunication Bureau

Notification basics I

Notices shall be used to supply information to another administration or to the Radiocommunication Bureau in the context of a

- modification of a Plan,
- request for agreement, coordination of an assignment, or
- notification to the BR with a view to updating the MIFR.

Notification basics II

All notifications to the ITU, BR may be considered as
- transformation from an assignment (on a national level)
- to an assignment (on an international level)

The major steps in notification are:

- identify national assignment
- convert assignment into notice
- verify the correctness of the notice
- submit the notice to the ITU
- follow-up, if necessary and finally observe the ITU...
- ...convert notice into assignment

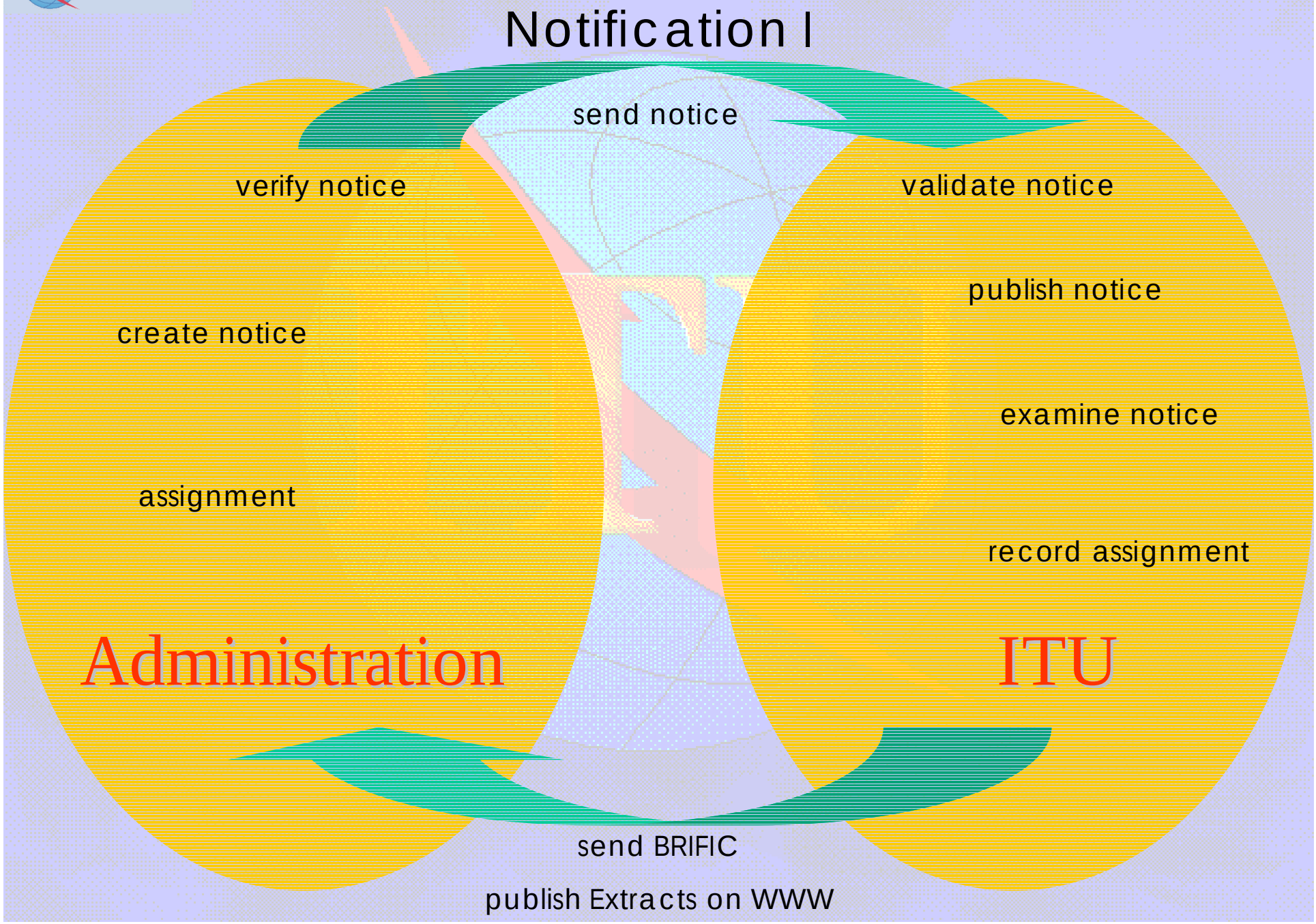
Difference between Notice and Assignment

When in dialog with the ITU on the subject of NOTIFICATION please note the following:

- **ASSIGNMENT** is a set of administrative, technical and geographical parameters uniquely describing one single radio-station (or multiple radio-stations, in case of typical stations) being recorded in corresponding file or record
- **NOTICE** is the same set of administrative, technical and geographical parameters - describing the same radio-station(s) - in the process of being transformed into assignment
- One can compare Notice and Assignment with two appearances of the same living creature, for example, notice being a caterpillar...

- ...and Assignment being a butterfly, well not the one flying from the flower to the flower, but, unfortunately, the one being pinned in some museum's collection

Notification I



National Assignment I

The source of national assignments are:

- Operating agency (within the Administration)
  - when commencing a new service
    - usually ADD
- ... or the Administration
  - as a result of international coordination
    - ADD, MOD or SUP
  - in case of change of national legislation
    - ADD, MOD or SUP
  - to correct an error
    - MOD or SUP and WITHDRAW

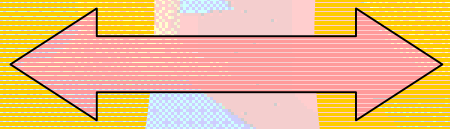
National Assignment II

- Aeronautical radionavigation land station (transmitting station)
- Aeronautical radionavigation mobile station (receiving station)
- Aeronautical station (transmitting station in the aeronautical mobile service)
- Aeronautical station in the aeronautical mobile (R) service
- Aeronautical station in the aeronautical mobile (OR) service
- Aircraft station (receiving station in the aeronautical mobile, aeronautical mobile (R) or aeronautical mobile (OR service)
- Amateur station
- Broadcasting station, sound, LF and MF
- Broadcasting station, sound, HF
- Broadcasting station, sound, VHF (FM)
- Broadcasting station, television
- Fixed station (transmitting station)
- Base station (transmitting station in the land mobile service)
- Land mobile station (receiving station in the land mobile service)
- Land station (transmitting station in the mobile service)
- Mobile station (receiving station in the mobile service)
- Coast station (transmitting station in the maritime mobile service)
- Port station (transmitting station in the maritime mobile service, for port operation)
- Ship station (receiving station in the maritime mobile service)
- Ship station (Appendix 17 Part A, Part B Sections I, III and IV)
- Oceanographic data interrogation station (transmitting station in the maritime mobile service)
- Oceanographic data station (receiving station in the maritime mobile service)
- Radiolocation land station (transmitting station)
- Radiolocation mobile station (receiving station)
- Radionavigation land station (transmitting station)
- Radionavigation mobile station (receiving station in the radionavigation service)
- Maritime radionavigation land station (transmitting station in the maritime radionavigation service)
- Maritime radionavigation mobile station (receiving station)
- Meteorological aids base station (transmitting station\)
- Meteorological aids mobile station (receiving station)
- Standard frequency and time signal station (transmitting station)

Notification II

National register of frequency assignments in use (radio stations licences)

Administration



Master **I**nternational **F**requency **R**egister

National extract from the MIFR

ITU

Notification III

Plans: **ST61, GE75, RJ81, GE84, GE85, RJ88, GE89,**

National Plan for the use of frequency assignments

National extract from the Plan

Administration

ITU

Identify Notice

The same identifying elements are used whenever necessary to identify notice or assignment

- Identifying elements of a notice are the following:
  - administrative parameters
    - Administration code
    - Fragment – FMTV (GE84, GE89, ST61, NTFD_RR, PLN_EXT) – LFMF (GE75, RJ81, RJ88, NTFD_RR) – FXM (AP25, AP26, AP27, ART.11, ART.9, Com. Freq, GE85M, GE85N)
  - geographical parameters
    - Geographical coordinates
    - Geographical area/ Standard area / Allotment area
  - technical parameters
    - Assigned frequency or Assigned channel number
    - Designation of emission
    - Class of station
    - Class of operation
    - Hours of operation

Identify Notice Type

Available Notice types:

- Broadcasting Service
  - FM/TV
    - Basic notices
      - **T01**
      - **T02**
    - Additional notices
      - **TB1**
      - **TB2**
      - **TB3**
      - **TB4**
      - **TB5**
- Broadcasting Service
  - LF/MF
    - Basic notices
      - **T03**
      - **T04**
    - Additional notices
      - **TB6**
      - **TB7**
      - **TB8**
      - **TB9**
- Fixed & Mobile service
  - Notice types
    - **T11**
    - **T12**
    - **T13**
    - **T14**
    - **T15**
    - **T16**
    - **T17**

---

total = 20

Identify Notice Action I

- Broadcasting Service
  - FM/TV

Basic notices	Actions	To be used for
T01	**ADD / MOD**	**VHF BC: Plans GE84/ST61, Art.11.2, Art.9.21**
T02	**ADD / MOD**	**VHF/UHF BT: Plans GE89/ST61, Art.11.2, Art.9.21**

Additional notices		
TB1	**ADMINID**	
TB2	**CONFORM**	**Art.11.2**
TB3	**PART B**	**Plans GE84/GE89/ST61**
TB4	**COORD**	**Plans GE84/GE89/ST61**
TB5	**SUPPRESS or WITHDRAW**	

Identify Notice Action II

- Broadcasting Service
  - LF/MF

Basic notices	Actions	To be used for
T03	ADD / MOD	LF/MF BC (R1&R3): Plan GE75, Art.11.2
T04	ADD / MOD	LF/MF BC (R2): Plans RJ81/RJ88, Art.11.2
Additional notices		
TB6	ADMINID	
TB7	CONFORM	Art.11.2
TB8	PART B	Plans GE75/RJ81/RJ88
TB9	SUPPRESS or WITHDRAW	

Identify Notice Action III

- Fixed & Mobile service
- Notice types → Actions → To be used for

→ T11	→A-M-S-W	→TX stations in FX, Art.11.2, Art.9.21
→ T12	→A-M-S-W	→TX stations other services, Art.11.2, Art.9.21, GE85N-Sup
→ T13	→A-M-S-W	→RX stations in all services, Art.11.9, Art.9.21
→ T14	→A-M-S-W	→Typical TX stations, Art.11.17
→ T15	→A-M-S-W	→Allotment in MMS (AP25)
→ T16	→A-M-S-W	→Transmitting FC, AL (GE85M Plan)
→ T17	→A-M-S-W	→Transmitting station using adaptive technique, Art.11.2

Broadcasting Service

BC

f = 94.5 MHz ~ VHF

GE75; GE84; ST61

MOD

Date of notification
Day Month Year

BC FORM OF NOTIFICATION f ~VHF
VHF
SOUND BROADCASTING STATION

T01

Broadcasting Service

REGIONAL AGREEMENT GENEVA, 1984 ☐ or
Article 4 Plan update

REGIONAL AGREEMENT STOCKHOLM, 1961 ☐ or
Article 4 Plan update

Article ... NOTIFICATION ☐ or
Master Register update

REQUEST FOR COORDINATION * ☐

only

GE84

ication intended for

Addition ☐ Modification ☐

Administration Unique Identifie

MOD

B/ notifying administration

3A1/Call sign

3A2/Station identification

FOR MODIFICATIONS: IDENTIFICATION OF THE ASSIGNMENT TO BE MODIFIED

Administration Unique Identifier of the assignment to be modified

Assigned frequency of the assignment to be modified, MHz

Geographical coordinates of the assignment to be modified
Longitude deg. min. sec. E/W
Latitude deg. min. sec. N/S

SITE CHARACTERISTICS

4A/Transmitting antenna site name

4B/Geographic area

4C/Coordinates: Longitude deg. min. sec. E/W
Latitude deg. min. sec. N/S

9EA/Altitude of site above sea level, m (+/-)

EMISSION CHARACTERISTICS

1A/Assigned frequency MHz

7A1/Necessary bandwidth kHz

9D Polarisation H/V/M

Effective radiated power,dBW
8BH/Horizontal (+/-)
8BV/Vertical (+/-)

7D/Transmission system

ANTENNA CHARACTERISTICS

9/Directivity of antenna D/ND

9E/Height of antenna above ground level, m

9EB/Maximum effective antenna height, m (+/-)

Article 11 (RR) only 12A Operating 12B Address 10B/ Regular hours of operation From (UTC) To (UTC) 2C/ Date of bringing into use

Broadcasting Service

BC

f = 945 kHz ~ MF

GE75; GE84; ST61

MOD

f ~MF

BC

Broadcasting Service

GE75

MOD

Date of notificat
Day Month Y

FORM OF NOTICE
LF/MF SOUND BROADCASTING STATION
egions

T03

For BR use only

REGIONAL AGREEMENT
GENEVA, 1975
Article 4 Plan update
☐ or ☐
Article 11(RR)
NOTIFICATION
Master Register update

cation intended for
Addition ☐ Modification ☐

Administration Unique Identifi

B/
notifying
administration

3A1/Call sign

3A2/Station identification

FOR MODIFICATIONS: IDENTIFICATION OF THE ASSIGNMENT TO BE MODIFIED

Administration Unique Identifier of the assignment to be modified

Assigned frequency of the assignment to be modified, kHz

Geographical coordinates of the assignment to be modified
Longitude deg. min. sec. E/W
Latitude deg. min. sec. N/S

SITE CHARACTERISTICS

4A/Transmitting antenna site name

4B/Geographic area

4C/Coordinates: Longitude deg. min. sec. E/W
Latitude deg. min. sec. N/S

4G/Ground conductivity, mS/m

1A/Assigned frequency
kHz

Synchronized network identifier

PARTICULARS CONCERNING DAY-TIME OPERATION

	10B/Regular hours of operation From(UTC)	10B/Regular hours of operation To(UTC)	7A1/Necessary bandwidth	8A Power to antenna	9I Max e.m.r.p.	9Q/Antenna type	9E/Antenna height	7B/Adj.channel prot.ratio
HJ	Hour minute	Hour minute	kHz	kW	dB(kW)	(A or B)	m	dB
or								

PARTICULARS CONCERNING NIGHT -TIME OPERATION

	10B/Regular hours of operation From(UTC)	10B/Regular hours of operation To(UTC)	7A1/Necessary bandwidth	8A Power to antenna	9I Max e.m.r.p.	9Q/Antenna type	9E/Antenna height	7B/Adj.channel prot.ratio
HN	Hour minute	Hour minute	kHz	kW	dB(kW)	(A or B)	m	dB

Identify Notice Form III

Fixed Service FX f = 4450 MHz RR 11.2; RR 9.21

FORM OF NOTICE
TERRESTRIAL TRANSMITTING STATION (TX) IN THE FIXED SERVICE
(RR APPENDIX 4, ANNEXES 1A AND 1B)

T11
10.10.2001

Date of notification Day Month Year | B: Notifying Administration | Notification intended for an assignment ADD MOD SUP | (For BR use only)

Submission under the provisions of RR11.2 RR9.21 | First notification | Re-submission | Withdrawal of a notice | Administration Unique Identifier | Administration Unique Identifier, or

Fixed Service

RR 11.2

V only, identifying parameters of the recorded assignment or of the notice under treatment

k/M/G Hz | O-6a: Class of station | O-7a: Designation of emission | O-7b: Class of operation (A/B/C) | O-10b: Hours of operation From (UTC) To (UTC) | O-4c: Coordinates (Longitude/Latitude) deg. min. sec. E/W deg. min. sec. N/S

Particulars of the assignment

1a: Assigned frequency k/M/G Hz | 1b: Reference (carrier) frequency k/M/G Hz | 6a: Class of station FX | 6b: Nature of service | 7a: Designation of emission | 7b: Class of operation (A/B/C) | 10b: Hours of operation From (UTC) To (UTC) | 7e: Frequency deviation (MHz) | 7f: Energy dispersal (kHz)

2c: Date of bringing into use Day Month Year | 3a: Call Sign | FX | or Station identification (RR Art.19)

4a: Name of the location of the transmitting station | 4b: Geographic area | 4c: Coordinates (Longitude / Latitude) deg. min. sec. E/W deg. min. sec. N/S | 9ea: Altitude of site above sea level +/- m

11: Successfully completed coordination with other Administrations Symbols designating the Administration | 12a: Operating agency | 12b: Address code of Administration | Other information (supplied on a separate sheet)

8: Type of power X/Y/Z | 8a: Power to the antenna (+/-) (dBW) | 8b: Radiated power (+/-) (dBW) (E/I) | 8ab: Maximum power density (+/-) (dBW/Hz)

9: Directivity of the antenna ND/D | 9a: Azimuth (deg.) | 9ab: Azimuthal sector for rotating antenna (deg. from) (deg. to) | 9c: Beamwidth (deg.) | 9g: Max. gain (D/I) (dB) | 9j: Reference antenna | 9b: Elevation angle (+/-) (deg.) | 9d: Polarization code | 9e: Height above ground level +/- m

5a: Name of the location of the receiving station(s) | 5b: Geographic area | 5c: Coordinates (Longitude / Latitude) deg. min. sec. E/W deg. min. sec. N/S | 9k: Receiving system noise temperature (K) | 5g: Maximum length of the circuit (km)

***Note:** Shaded fields are applicable only in certain cases*

Page ... of ...

Notification intended for

Modification ☐

Administration Unique Identifier

B/ notifying administration

3A1/Call sign

3A2/Station identification

FOR MODIFICATIONS: IDENTIFICATION OF THE ASSIGNMENT TO BE MODIFIED

Administration Unique Identifier of the assignment to be modified

Assigned frequency of the assignment to be modified, MHz

Geographical coordinates of the assignment to be modified

Longitude deg. min. sec. E/W

Latitude deg. min. sec. N/S

SITE CHARACTERISTICS

4A/Transmitting antenna site name

Basic set of identifying parameters

4B/Geographic area

4C/Coordinates: Longitude deg. min. sec. E/W

Latitude deg. min. sec. N/S

9EA/Altitude of site above sea level, m (+/-)

EMISSION CHARACTERISTICS

1A/Assigned frequency MHz

7A1/Necessary bandwidth kHz

9D Polarisation H/V/M

Effective radiated power,dBW

8BH/Horizontal (+/-)

8BV/Vertical (+/-)

7D/Transmission system

ANTENNA CHARACTERISTICS

9/Directivity of antenna D/ND

9E/Height of antenna above ground level, m

9EB/Maximum effective antenna height, m (+/-)

Fill out Notice Form II

Date of notification Day Month Year | B: Notifying Administration | Notification intended for of an assignment ADD MOD SUP (For BR use only) | FORM OF NOTICE TERRESTRIAL TRANSMITTING STATION (TX) IN THE FIXED SERVICE (RR APPENDIX 4, ANNEXES 1A AND 1B) | T11 10.10.2001

Submission under the provisions of RR11.2 RR9.21 | First notification | Re-submission | Withdrawal of a notice | Administration Unique Identifier | Previously recorded Administration Unique Identifier, or

for MOD / SUP / WITHDRAW only, identifying parameters of the recorded assignment or of the notice under treatment

O-1a: Assigned frequency k/M/G Hz | O-6a: Class of station | O-7a: Designation of emission | O-7b: Class of operation (A/B/C) | O-10b: Hours of operation From (UTC) To (UTC) | O-4c: Coordinates (Longitude/Latitude) deg. min. sec. E/W deg. min. sec. N/S

Particulars of the assignment

1a: Assigned frequency k/M/G Hz | 1b: Reference (carrier) frequency k/M/G Hz | 6a: Class of station F X | 6b: Nature of service | 7a: Designation of emission | 7b: Class of operation (A/B/C) | 10b: Hours of operation From (UTC) To (UTC) | 7e: Frequency deviation (MHz) | 7f: Energy dispersal (kHz)

Day Month Year

Basic set of identifying parameters

4a: Name of the location of the transmitting station | 4b: Geographic area | 4c: Coordinates (Lor deg. min. sec

11: Successfully completed coordination with other Administrations Symbols designating the Administration | 12a: Operating agency | 12b: Address code of Administration | Other information (supplied on a separate sheet)

8: Type of power X/Y/Z | 8a: Power to the antenna (+/-) (dBW) | 8b: Radiated power (+/-) (dBW) (E/I) | 8ab: Maximum power density (+/-) (dBW/Hz)

9: Directivity of the antenna ND/D | 9a: Azimuth (deg.) | 9ab: Azimuthal sector for rotating antenna (deg. from) (deg. to) | 9c: Beamwidth (deg.) | 9g: Max. gain (D/I) (dB) | 9j: Reference antenna | 9b: Elevation angle (+/-) (deg.) | 9d: Polarization code | 9e: Height above ground level +/- m

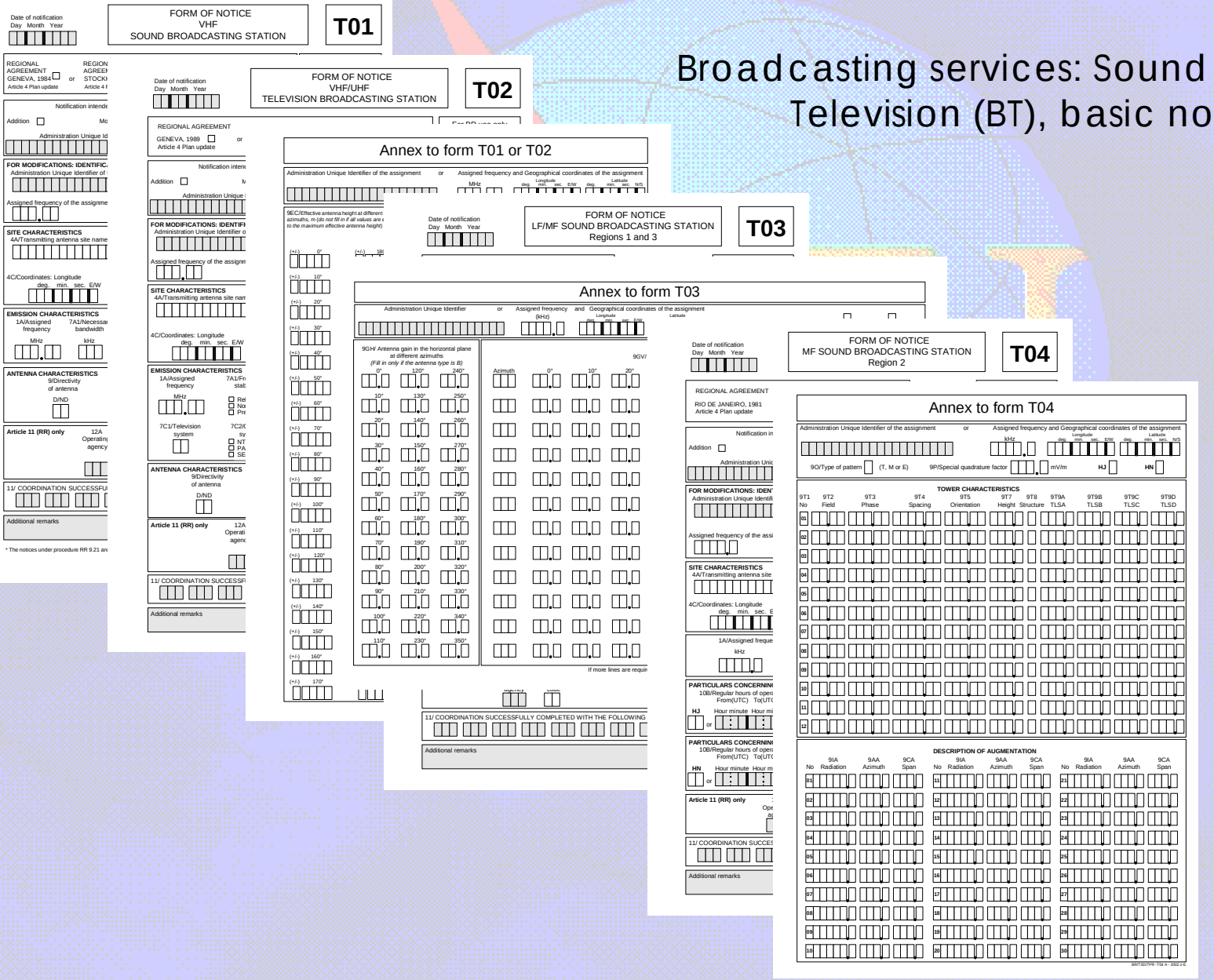
5a: Name of the location of the receiving station(s) | 5b: Geographic area | 5c: Coordinates (Longitude / Latitude) deg. min. sec. E/W deg. min. sec. N/S | 9k: Receiving system noise temperature (K) | 5g: Maximum length of the circuit (km)

***Note:* Shaded fields are applicable only in certain cases**

Page ... of ...

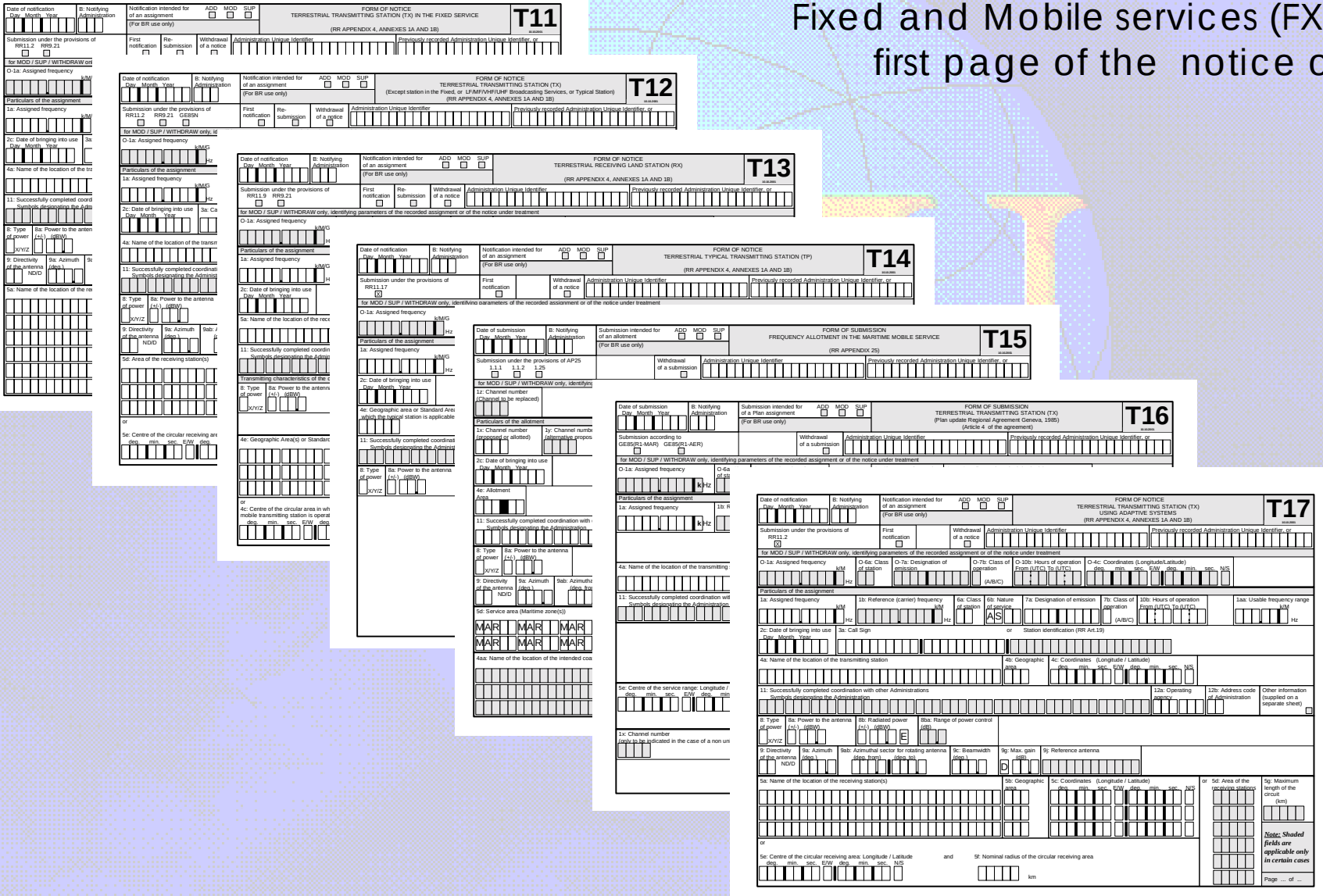
Notification format: PAPER I

Broadcasting services: Sound (BC) and Television (BT), basic notices only



Notification format: PAPER II

Fixed and Mobile services (FXM), first page of the notice only



How to ... BC manually?

Date of notification Day Month Year: 11 11 2002

FORM OF NOTICE
VHF
SOUND BROADCASTING STATION

T01

REGIONAL AGREEMENT GENEVA, 1984 [X] Article 4 Plan update | or | REGIONAL AGREEMENT STOCKHOLM, 1961 [ ] Article 4 Plan update | or | Article 11 (RR) NOTIFICATION [ ] Master Register update | or | RR 9.21 REQUEST FOR COORDINATION * [ ]

For BR use only

Notification intended for: Addition [X] Modification [ ]

Administration Unique Identifier: 19840843A

B/ notifying administration: SUI

3A1/Call sign:

3A2/Station identification:

FOR MODIFICATIONS: IDENTIFICATION OF THE ASSIGNMENT TO BE MODIFIED

Administration Unique Identifier of the assignment to be modified:

Assigned frequency of the assignment to be modified, MHz:

Geographical coordinates of the assignment to be modified — Longitude deg. min. sec. E/W; Latitude deg. min. sec. N/S:

SITE CHARACTERISTICS

4A/Transmitting antenna site name: RADIO LAC

4B/Geographic area: F

4C/Coordinates: Longitude deg. min. sec. E/W: 006 12 00 E; Latitude deg. min. sec. N/S: 46 09 00 N

9EA/Altitude of site above sea level, m (+/-): +1080

EMISSION CHARACTERISTICS

1A/Assigned frequency MHz	7A1/Necessary bandwidth kHz	9D Polarisation H/V/M	Effective radiated power,dBW 8BH/Horizontal (+/-)	8BV/Vertical (+/-)	7D/Transmission system
91.80	300	M	+24.0	+24.0	4

ANTENNA CHARACTERISTICS

9/Directivity of antenna D/ND	9E/Height of antenna above ground level, m	9EB/Maximum effective antenna height, m (+/-)
D	25	+711

Article 11 (RR) only

12A Operating agency	12B Address code	10B/ Regular hours of operation From (UTC) Hour minute	To (UTC) Hour minute	2C/ Date of bringing into use Day Month Year

11/ COORDINATION SUCCESSFULLY COMPLETED WITH THE FOLLOWING ADMINISTRATIONS

Additional remarks

BR/TSD/TPR -T01-2002.1-E

* The notices under procedure RR 9.21 are treated in a semi-automated manner, outside TerRaSys, and only paper notices are accepted for the time being

Annex to form T01 or T02

Administration Unique Identifier of the assignment or Assigned frequency and Geographical coordinates of the assignment

MHz: 91.80

Longitude deg. min. sec. E/W: 006 12 00 E

Latitude deg. min. sec. N/S: 46 09 00 N

9EC/Effective antenna height at different azimuths, m (*do not fill in if all values are equal to the maximum effective antenna height*)

(+/-) 0°	(+/-) 180°
+0701	+0300
(+/-) 10°	(+/-) 190°
+0681	+0220
(+/-) 20°	(+/-) 200°
+0675	+0175
(+/-) 30°	(+/-) 210°
+0661	+0132
(+/-) 40°	(+/-) 220°
+0638	+0230
(+/-) 50°	(+/-) 230°
+0580	+0320
(+/-) 60°	(+/-) 240°
+0373	+0515
(+/-) 70°	(+/-) 250°
+0383	+0590
(+/-) 80°	(+/-) 260°
+0517	+0620
(+/-) 90°	(+/-) 270°
+0577	+0660
(+/-) 100°	(+/-) 280°
+0650	+0675
(+/-) 110°	(+/-) 290°
+0620	+0697
(+/-) 120°	(+/-) 300°
+0590	+0691
(+/-) 130°	(+/-) 310°
+0525	+0683
(+/-) 140°	(+/-) 320°
+0460	+0686
(+/-) 150°	(+/-) 330°
+0335	+0684
(+/-) 160°	(+/-) 340°
+0320	+0700
(+/-) 170°	(+/-) 350°
+031	+0711

9NH/Attenuation at different azimuths of the horizontally polarized component with respect to maximum e.r.p of the horizontally polarized component, (dB) (*do not fill in if the antenna is non-directional*)

0°	180°
3.0	20.0
10°	190°
5.0	20.0
20°	200°
7.0	20.0
30°	210°
9.0	20.0
40°	220°
12.0	18.0
50°	230°
15.0	15.0
60°	240°
18.0	12.0
70°	250°
20.0	9.0
80°	260°
20.0	7.0
90°	270°
20.0	5.0
100°	280°
20.0	3.0
110°	290°
20.0	2.0
120°	300°
20.0	1.0
130°	310°
20.0	0.0
140°	320°
20.0	0.0
150°	330°
20.0	0.0
160°	340°
20.0	1.0
170°	350°
20.0	2.0

9NV/Attenuation at different azimuths of the vertically polarized component with respect to maximum e.r.p of the vertically polarized component, (dB) (*do not fill in if the antenna is non-directional*)

0°	180°
3.0	20.0
10°	190°
5.0	20.0
20°	200°
7.0	20.0
30°	210°
9.0	20.0
40°	220°
12.0	18.0
50°	230°
15.0	15.0
60°	240°
18.0	12.0
70°	250°
20.0	9.0
80°	260°
20.0	7.0
90°	270°
20.0	5.0
100°	280°
20.0	3.0
110°	290°
20.0	2.0
120°	300°
20.0	1.0
130°	310°
20.0	0.0
140°	320°
20.0	0.0
150°	330°
20.0	0.0
160°	340°
20.0	1.0
170°	350°
20.0	2.0

BR/TSD/TPR -T01/2 A - 2002.1-E

How to ... FXM, manually?

FORM OF NOTICE
TERRESTRIAL TRANSMITTING STATION (TX) IN THE FIXED SERVICE
(RR APPENDIX 4, ANNEXES 1A AND 1B)

T11 10.10.2001

Date of notification (Day Month Year)	12 02 2002
B: Notifying Administration	MRC
Notification intended for of an assignment (For BR use only)	ADD [X] MOD [ ] SUP [ ]
Submission under the provisions of RR11.2 / RR9.21	[X] / [ ]
First notification	[X]
Re-submission	[ ]
Withdrawal of a notice	[ ]
Administration Unique Identifier	A2002030 1
Previously recorded Administration Unique Identifier, or	

for MOD / SUP / WITHDRAW only, identifying parameters of the recorded assignment or of the notice under treatment

O-1a: Assigned frequency (k/M/G Hz)	O-6a: Class of station	O-7a: Designation of emission	O-7b: Class of operation (A/B/C)	O-10b: Hours of operation From (UTC) To (UTC)	O-4c: Coordinates (Longitude/Latitude) deg. min. sec. E/W deg. min. sec. N/S
				: :	

Particulars of the assignment

1a: Assigned frequency (k/M/G Hz)	1b: Reference (carrier) frequency (k/M/G Hz)	6a: Class of station	6b: Nature of service	7a: Designation of emission	7b: Class of operation (A/B/C)	10b: Hours of operation From (UTC) To (UTC)	7e: Frequency deviation (MHz)	7f: Energy dispersal (kHz)
10525.000 M Hz		FX	CP	22M5F XW		0000 2400		

2c: Date of bringing into use (Day Month Year)	3a: Call Sign	or	Station identification (RR Art.19)
03 12 1999	5HX4		

4a: Name of the location of the transmitting station	4b: Geographic area	4c: Coordinates (Longitude / Latitude) deg. min. sec. E/W deg. min. sec. N/S	9ea: Altitude of site above sea level (+/- m)
MARRAKECH	MRC	008 00 28 W 31 38 07 N	+ 529 m

11: Successfully completed coordination with other Administrations Symbols designating the Administration	12a: Operating agency	12b: Address code of Administration	Other information (supplied on a separate sheet)
		A	[ ]

8: Type of power X/Y/Z	8a: Power to the antenna (+/-) (dBW)	8b: Radiated power (+/-) (dBW) (E/I)	8ab: Maximum power density (+/-) (dBW/Hz)
Y	- 70	+ 29.3 E	

9: Directivity of the antenna ND/D	9a: Azimuth (deg.)	9ab: Azimuthal sector for rotating antenna (deg. from) (deg. to)	9c: Beamwidth (deg.)	9g: Max. gain (D/I) (dB)	9j: Reference antenna	9b: Elevation angle (+/-) (deg.)	9d: Polarization code	9e: Height above ground level (+/- m)
D	116.		0.9	D 36.3		0.5	H	+ 60 m

5a: Name of the location of the receiving station(s)	5b: Geographic area	5c: Coordinates (Longitude / Latitude) deg. min. sec. E/W deg. min. sec. N/S	9k: Receiving system noise temperature (K)	5g: Maximum length of the circuit (km)
MARRAKECH	MRC	008 10 57 W 31 41 34 N		

***Note:* Shaded fields are applicable only in certain cases**

Page ... of ...

Notification format: ELECTRONIC I

```
File created on 11-11-2002 / 16:21:55
Processed by rackov
<HEAD>
t_adm=MRC
</HEAD>

<NOTICE>
t_notice_type=T11
t_action=ADD
t_fragment=NTFD_RR
t_addr_code=A
t_freq_assgn= 10525
t_site_name=MARRAKECH
t_ctry=MRC
t_long=-0080028
t_lat=+313807
t_site_alt=529
t_op_hh_fr=00:00
t_op_hh_to=24:00
t_stn_cls=FX
t_emi_cls=FXW
t_bdwdth_cde=22M5
t_nat_srv=CP
t_d_inuse=1999-12-03
t_d_adm_ntc=2002-02-12
t_call_sign=5HX4
t_adm_ref_id=A20020301
t_is_resub=FALSE
t_prov=S11.2
```

```
<ANTENNA>
t_pwr_xyz=Y
t_pwr_ant=-7
t_pwr_dbw=29.3
t_pwr_eiv=E
t_ant_dir=D
t_azm_max_e=116
t_bmwdth=0.9
t_gain_type=D
t_gain_max=36.3
t_elev=0.5
t_polar=H
t_hgt_agl=60
<RX_STATION>
t_geo_type=POINT
t_site_name=MARRAKECH
t_ctry=MRC
t_long=-0081057
t_lat=+314134
</RX_STATION>
</ANTENNA>
</NOTICE>

<TAIL>
t_num_notices =  1
</TAIL>
```

Data structure is described in CR/118 (FXM), CR/120 (FMTV) and CR/125 (LFMF) The electronic file is a sequential, record-oriented file, which follows the general outline of an SGML (Standard Generalized Mark-up Language) file, with a tagging scheme.

Notification format: ELECTRONIC II

```
<HEAD>
t_adm=MRC
</HEAD>
```

```
<NOTICE>
t_notice_type=T11
t_action=ADD
t_fragment=NTFD_RR
t_addr_code=A
t_freq_assgn= 10525
t_site_name=MARRAKECH
t_ctry=MRC
t_long=-0080028
t_lat=+313807
t_site_alt=529
t_op_hh_fr=00:00
t_op_hh_to=24:00
t_stn_cls=FX
t_emi_cls=FXW
t_bdwdth_cde=22M5
t_nat_srv=CP
t_d_inuse=1999-12-03
t_d_adm_ntc=2002-02-12
t_call_sign=5HX4
t_adm_ref_id=A20020301
t_is_resub=FALSE
t_prov=S11.2
```

```
<ANTENNA>
t_pwr_xyz=Y
t_pwr_ant=-7
t_pwr_dbw=29.3
t_pwr_eiv=E
t_ant_dir=D
t_azm_max_e=116
t_bmwdth=0.9
t_gain_type=D
t_gain_max=36.3
t_elev=0.5
t_polar=H
t_hgt_agl=60
<RX_STATION>
t_geo_type=POINT
t_site_name=MARRAKECH
t_ctry=MRC
t_long=-0081057
t_lat=+314134
</RX_STATION>
</ANTENNA>
</NOTICE>
```

```
<TAIL>
t_num_notices =  1
</TAIL>
```

Each file contains three different types of sections:

One Head Section

One or more Notice Section(s), Each notice is contained in one Notice Section. The composition of the Notice Section depends on the Notice Type

One Tail Section which contains information about the number of the notices in the file

How to ... BC using TstTrs I?

Fragment GE84 BR_Id 084003945 Action RECORDED

Admin SUI Adm. Identif 19840843 Station MT SALEVE Country F

Geogr. Coordinates (014E0202 45N1003) 006E1200 46N0900 Altitude (m) 1080 Height (m) 25 Heff. max (m) 711

Frequency (MHz) 91.80 Polar H ParMxH (dBW) 27 ParMxV (dBW) Bandwid 300 Syst. 4

Attenuation for polarization H

Azimuth	000	010	020	030	040	050	060	070	080	090	100	110
Attenuation	3.0	5.0	7.0	9.0	12.0	15.0	18.0	20.0	20.0	20.0	20.0	20.0
Azimuth	120	130	140	150	160	170	180	190	200	210	220	230
Attenuation	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.0	15.0
Azimuth	240	250	260	270	280	290	300	310	320	330	340	350
Attenuation	12.0	9.0	7.0	5.0	3.0	2.0	1.0	0.0	0.0	0.0	1.0	2.0

Azimuth	000	010	020	030	040	050	060	070	080	090	100	110
Haut Eff	701	681	675	661	638	580	373	383	517	577	650	620
Azimuth	120	130	140	150	160	170	180	190	200	210	220	230
Haut Eff	590	525	460	335	320	310	300	220	175	132	230	320
Azimuth	240	250	260	270	280	290	300	310	320	330	340	350
Haut Eff	515	590	620	660	675	697	691	688	686	684	700	711

Message: Enter altitude, m, between -300 and 8000

PREVIOUS | OTHER TerRaKey | Test ST61 | RECORD | PRINT | GO BACK

Date of notification Day Month Year

REGIONAL AGREEMENT GENEVA, 1984 ☐ or REGIONAL AGREEMENT STO ☐
Article 4 Plan update

Notification inte

Addition ☐

Administration Uniqu

FOR MODIFICATIONS: IDENTI
Administration Unique Identifier

Assigned frequency of the assig

SITE CHARACTERISTICS
4A/Transmitting antenna site na

4C/Coordinates: Longitude deg. min. sec. E/

EMISSION CHARACTERISTICS
1A/Assigned frequency MHz
7A1/Neces bandwic kHz

ANTENNA CHARACTERISTICS
9/Directivity of antenna
D/ND

Article 11 (RR) only 12 Opera age

11/ COORDINATION SUCCESS

Additional remarks

BR/TSD/TPR -T01-2002.1-E

* The notices under procedure RR 9.21 are treated in a semi-automated manner, outside TerRaSys, and only paper notices are accepted for the time being

Annex to form T01 or T02

raphical coordinates of the assignment
ongitude min. sec. E/W Latitude deg. min. sec. N/S

V/Attenuation at different azimuths of the rtically polarized component with respect to aximum e.r.p of the vertically polarized mponent, (dB)
o not fill in if the antenna is non-directional)

0° 180° 10° 190° 20° 200° 30° 210° 40° 220° 50° 230° 60° 240° 70° 250° 80° 260° 90° 270° 100° 280° 110° 290° 120° 300° 130° 310° 140° 320° 150° 330° 160° 340° 170° 350°

(+/-) 170° (+/-) 350° 170° 350°

BR/TSD/TPR -T01/2 A - 2002.1-E

How to ... BC using TstTrs III?

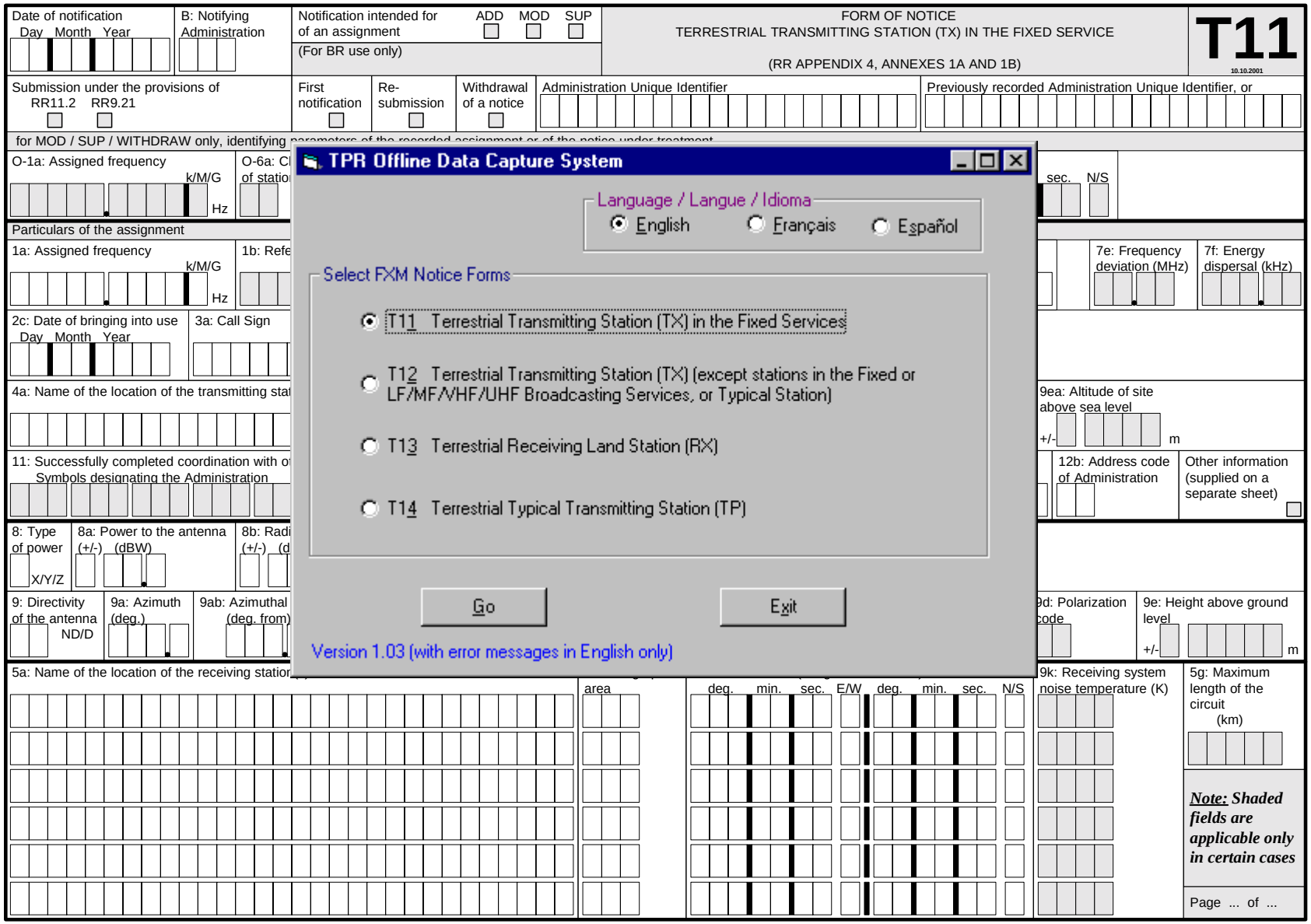

```
<HEAD>
t_d_sent = 2002-09-27
t_adm = SUI
comment = This is a BR generated
file
</HEAD>
<NOTICE>
t_notice_type=T01
t_fragment=GE84
t_action=ADD
t_adm_ref_id=19840843A
t_freq_assgn= 91.8
t_ctry=F
t_site_name=RADIO LAC
t_long=+0061200
t_lat=+460900
t_polar=M
t_erp_h_dbw=24
t_erp_v_dbw=24
t_tran_sys=4
t_hgt_agl=25
t_site_alt=1080
t_eff_hgtmax=711
t_bdwdth= 300
```

```
<ANT_HGT>
t_eff_hgt@azm000 =  701
t_eff_hgt@azm010 =  681
t_eff_hgt@azm020 =  675
t_eff_hgt@azm030 =  661
t_eff_hgt@azm040 =  638
t_eff_hgt@azm050 =  580
t_eff_hgt@azm060 =  373
t_eff_hgt@azm070 =  383
t_eff_hgt@azm080 =  517
t_eff_hgt@azm090 =  577
t_eff_hgt@azm100 =  650
t_eff_hgt@azm110 =  620
t_eff_hgt@azm120 =  590
t_eff_hgt@azm130 =  525
t_eff_hgt@azm140 =  460
t_eff_hgt@azm150 =  335
t_eff_hgt@azm160 =  320
t_eff_hgt@azm170 =  310
t_eff_hgt@azm180 =  300
t_eff_hgt@azm190 =  220
t_eff_hgt@azm200 =  175
t_eff_hgt@azm210 =  132
t_eff_hgt@azm220 =  230
t_eff_hgt@azm230 =  320
t_eff_hgt@azm240 =  515
t_eff_hgt@azm250 =  590
t_eff_hgt@azm260 =  620
t_eff_hgt@azm270 =  660
t_eff_hgt@azm280 =  675
t_eff_hgt@azm290 =  697
t_eff_hgt@azm300 =  691
t_eff_hgt@azm310 =  688
t_eff_hgt@azm320 =  686
t_eff_hgt@azm330 =  684
t_eff_hgt@azm340 =  700
t_eff_hgt@azm350 =  711
</ANT_HGT>
```

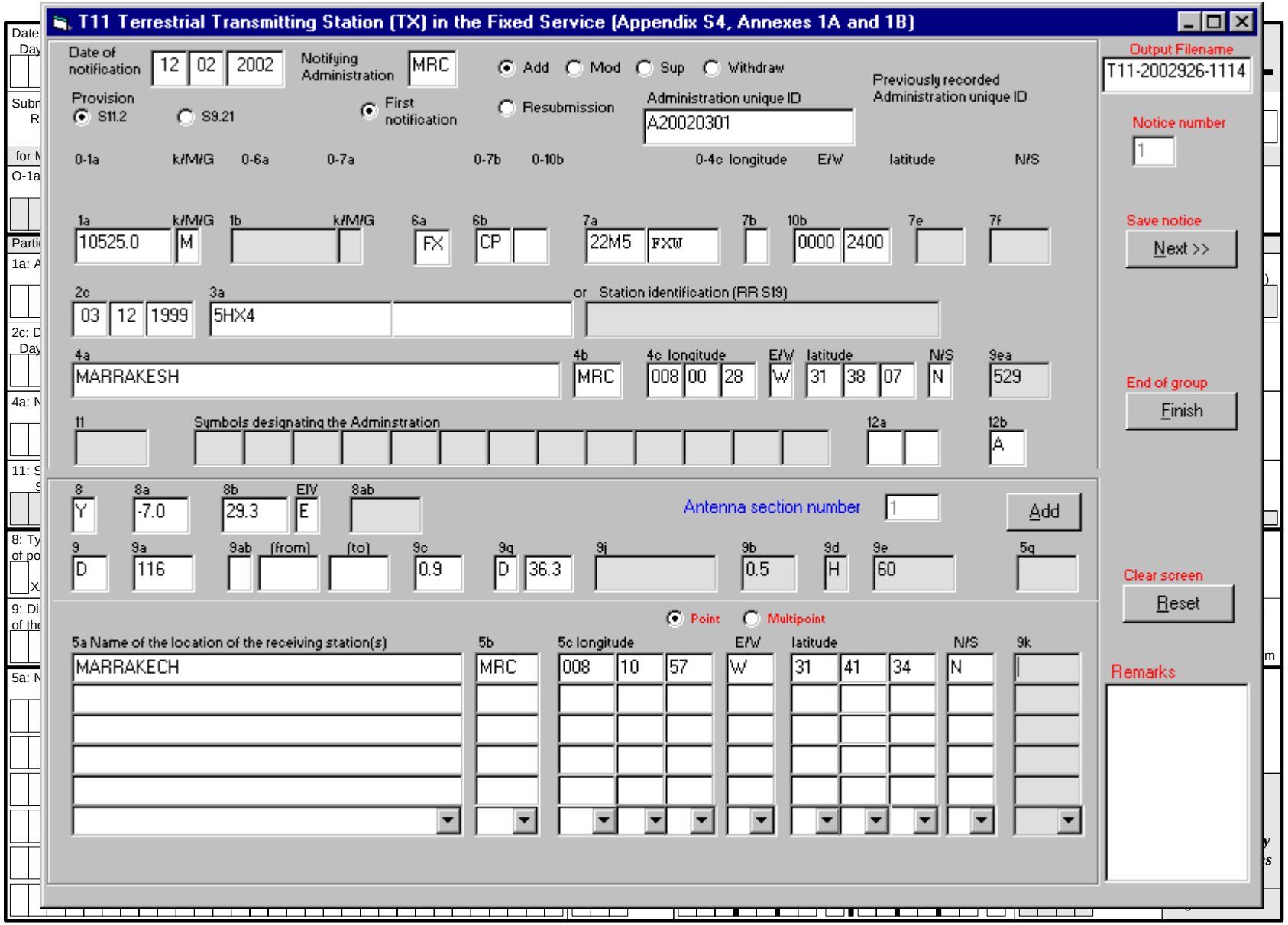
```
<ANT_DIAGR_H>
t_attn@azm000 =  3
t_attn@azm010 =  5
t_attn@azm020 =  7
t_attn@azm030 =  9
t_attn@azm040 =  12
t_attn@azm050 =  15
t_attn@azm060 =  18
t_attn@azm070 =  20
t_attn@azm080 =  20
t_attn@azm090 =  20
t_attn@azm100 =  20
t_attn@azm110 =  20
t_attn@azm120 =  20
t_attn@azm130 =  20
t_attn@azm140 =  20
t_attn@azm150 =  20
t_attn@azm160 =  20
t_attn@azm170 =  20
t_attn@azm180 =  20
t_attn@azm190 =  20
t_attn@azm200 =  20
t_attn@azm210 =  20
t_attn@azm220 =  18
t_attn@azm230 =  15
t_attn@azm240 =  12
t_attn@azm250 =  9
t_attn@azm260 =  7
t_attn@azm270 =  5
t_attn@azm280 =  3
t_attn@azm290 =  2
t_attn@azm300 =  1
t_attn@azm310 =  0
t_attn@azm320 =  0
t_attn@azm330 =  0
t_attn@azm340 =  1
t_attn@azm350 =  2
</ANT_DIAGR_H>
```

```
<ANT_DIAGR_V>
t_attn@azm000 =  3
t_attn@azm010 =  5
t_attn@azm020 =  7
t_attn@azm030 =  9
t_attn@azm040 =  12
t_attn@azm050 =  15
t_attn@azm060 =  18
t_attn@azm070 =  20
t_attn@azm080 =  20
t_attn@azm090 =  20
t_attn@azm100 =  20
t_attn@azm110 =  20
t_attn@azm120 =  20
t_attn@azm130 =  20
t_attn@azm140 =  20
t_attn@azm150 =  20
t_attn@azm160 =  20
t_attn@azm170 =  20
t_attn@azm180 =  20
t_attn@azm190 =  20
t_attn@azm200 =  20
t_attn@azm210 =  20
t_attn@azm220 =  18
t_attn@azm230 =  15
t_attn@azm240 =  12
t_attn@azm250 =  9
t_attn@azm260 =  7
t_attn@azm270 =  5
t_attn@azm280 =  3
t_attn@azm290 =  2
t_attn@azm300 =  1
t_attn@azm310 =  0
t_attn@azm320 =  0
t_attn@azm330 =  0
t_attn@azm340 =  1
t_attn@azm350 =  2
</ANT_DIAGR_V>
</NOTICE>
<TAIL>
t_num_notices =  1
</TAIL>
```

How to ... using FXM DCap I



How to ... using FXM DCap II



How to ... using FXM DCap III


```
File created on 11-11-2002 / 16:21:55
Processed by rackov
<HEAD>
t_adm=MRC
</HEAD>

<NOTICE>
t_notice_type=T11
t_action=ADD
t_fragment=NTFD_RR
t_addr_code=A
t_freq_assgn= 10525
t_site_name=MARRAKECH
t_ctry=MRC
t_long=-0080028
t_lat=+313807
t_site_alt=529
t_op_hh_fr=00:00
t_op_hh_to=24:00
t_stn_cls=FX
t_emi_cls=FXW
t_bdwdth_cde=22M5
t_nat_srv=CP
t_d_inuse=1999-12-03
t_d_adm_ntc=2002-02-12
t_call_sign=5HX4
t_adm_ref_id=A20020301
t_is_resub=FALSE
t_prov=S11.2
<ANTENNA>
t_pwr_xyz=Y
t_pwr_ant=-7
t_pwr_dbw=29.3
t_pwr_eiv=E
t_ant_dir=D
t_azm_max_e=116
t_bmwdth=0.9
t_gain_type=D
t_gain_max=36.3
t_elev=0.5
t_polar=H
t_hgt_agl=60
<RX_STATION>
t_geo_type=POINT
t_site_name=MARRAKECH
t_ctry=MRC
t_long=-0081057
t_lat=+314134
</RX_STATION>
</ANTENNA>
</NOTICE>

<TAIL>
t_num_notices =  1
</TAIL>
```

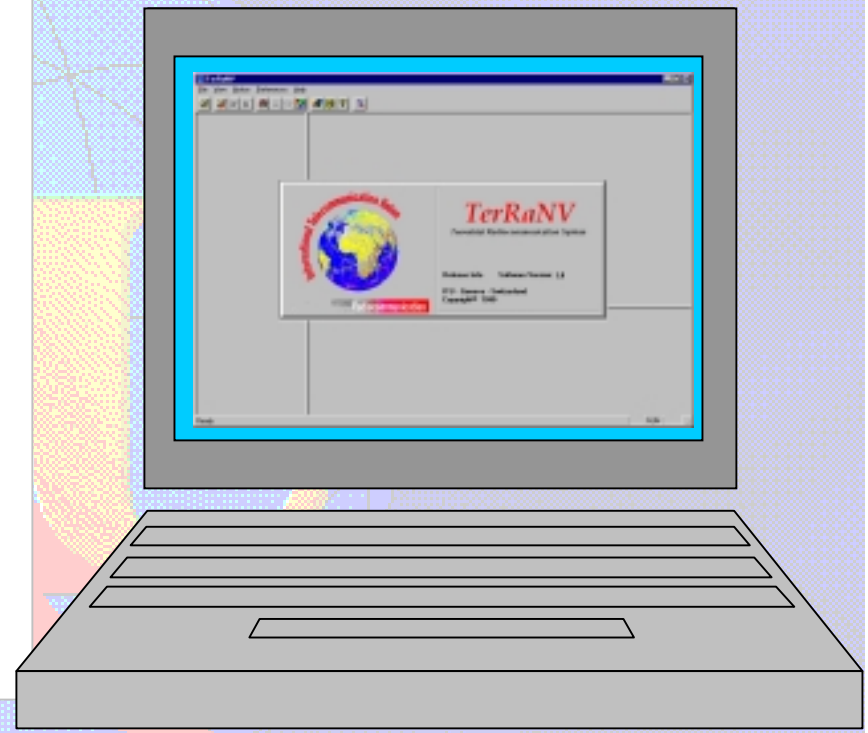
Notice verification I

```
<ANT_DIAGR_V>
t_attn@azm000 =  3
t_attn@azm010 =
t_attn@azm020 =
t_attn@azm030 =
t_attn@azm040 =
t_attn@azm050 =
t_attn@azm060 =
t_attn@azm070 =
t_attn@azm080 =
t_attn@azm090 =
t_attn@azm100 =
t_attn@azm110 =
t_attn@azm120 =
t_attn@azm130 =
t_attn@azm140 =
t_attn@azm150 =
t_attn@azm160 =
t_attn@azm170 =
t_attn@azm180 =
t_attn@azm190 =
t_attn@azm200 =
t_attn@azm210 =
t_attn@azm220 =
t_attn@azm230 =
t_attn@azm240 =
t_attn@azm250 =
t_attn@azm260 =
t_attn@azm270 =
t_attn@azm280 =
t_attn@azm290 =
t_attn@azm300 =
t_attn@azm310 =
t_attn@azm320 =
t_attn@azm330 =
t_attn@azm340 =
t_attn@azm350 =
</ANT_DIAGR_V>
</NOTICE>
<TAIL>
t_num_notices =
</TAIL>
```

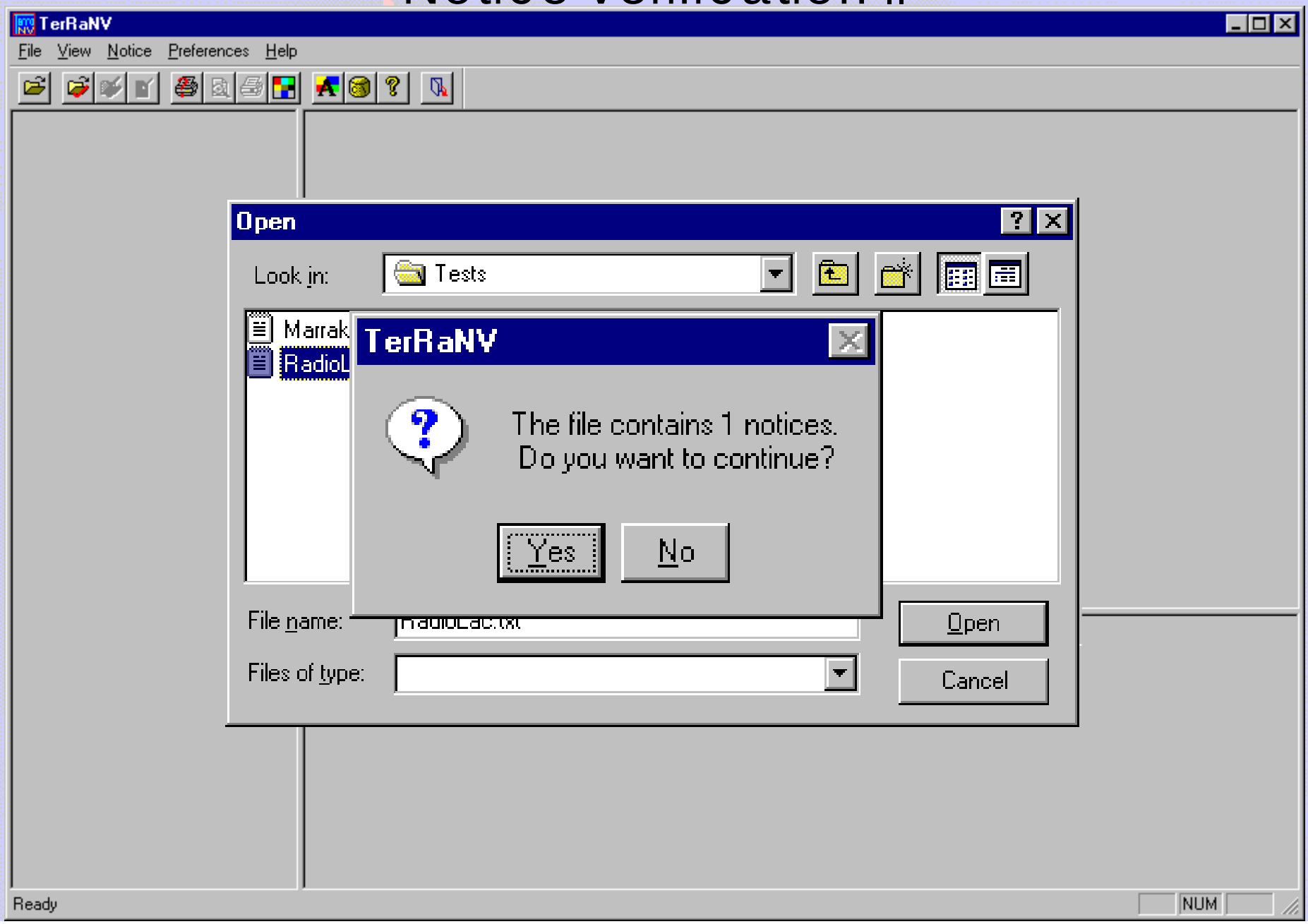
```
<ANT_DIAGR_H>
t_attn@azm000 =  3
t_attn@azm010 =
t_attn@azm020 =
t_attn@azm030 =
t_attn@azm040 =
t_attn@azm050 =
t_attn@azm060 =
t_attn@azm070 =
t_attn@azm080 =
t_attn@azm090 =
t_attn@azm100 =
t_attn@azm110 =
t_attn@azm120 =
t_attn@azm130 =
t_attn@azm140 =
t_attn@azm150 =
t_attn@azm160 =
t_attn@azm170 =
t_attn@azm180 =
t_attn@azm190 =
t_attn@azm200 =
t_attn@azm210 =
t_attn@azm220 =
t_attn@azm230 =
t_attn@azm240 =
t_attn@azm250 =
t_attn@azm260 =
t_attn@azm270 =
t_attn@azm280 =
t_attn@azm290 =
t_attn@azm300 =
t_attn@azm310 =
t_attn@azm320 =
t_attn@azm330 =
t_attn@azm340 =
t_attn@azm350 =
</ANT_DIAGR_H>
```

```
<ANT_HGT>
t_eff_hgt@azm000 =  701
t_eff_hgt@azm010 =
t_eff_hgt@azm020 =
t_eff_hgt@azm030 =
t_eff_hgt@azm040 =
t_eff_hgt@azm050 =
t_eff_hgt@azm060 =
t_eff_hgt@azm070 =
t_eff_hgt@azm080 =
t_eff_hgt@azm090 =
t_eff_hgt@azm100 =
t_eff_hgt@azm110 =
t_eff_hgt@azm120 =
t_eff_hgt@azm130 =
t_eff_hgt@azm140 =
t_eff_hgt@azm150 =
t_eff_hgt@azm160 =
t_eff_hgt@azm170 =
t_eff_hgt@azm180 =
t_eff_hgt@azm190 =
t_eff_hgt@azm200 =
t_eff_hgt@azm210 =
t_eff_hgt@azm220 =
t_eff_hgt@azm230 =
t_eff_hgt@azm240 =  515
t_eff_hgt@azm250 =  590
t_eff_hgt@azm260 =  620
t_eff_hgt@azm270 =  660
t_eff_hgt@azm280 =  675
t_eff_hgt@azm290 =  697
t_eff_hgt@azm300 =  691
t_eff_hgt@azm310 =  688
t_eff_hgt@azm320 =  686
t_eff_hgt@azm330 =  684
t_eff_hgt@azm340 =  700
t_eff_hgt@azm350 =  711
</ANT_HGT>
```

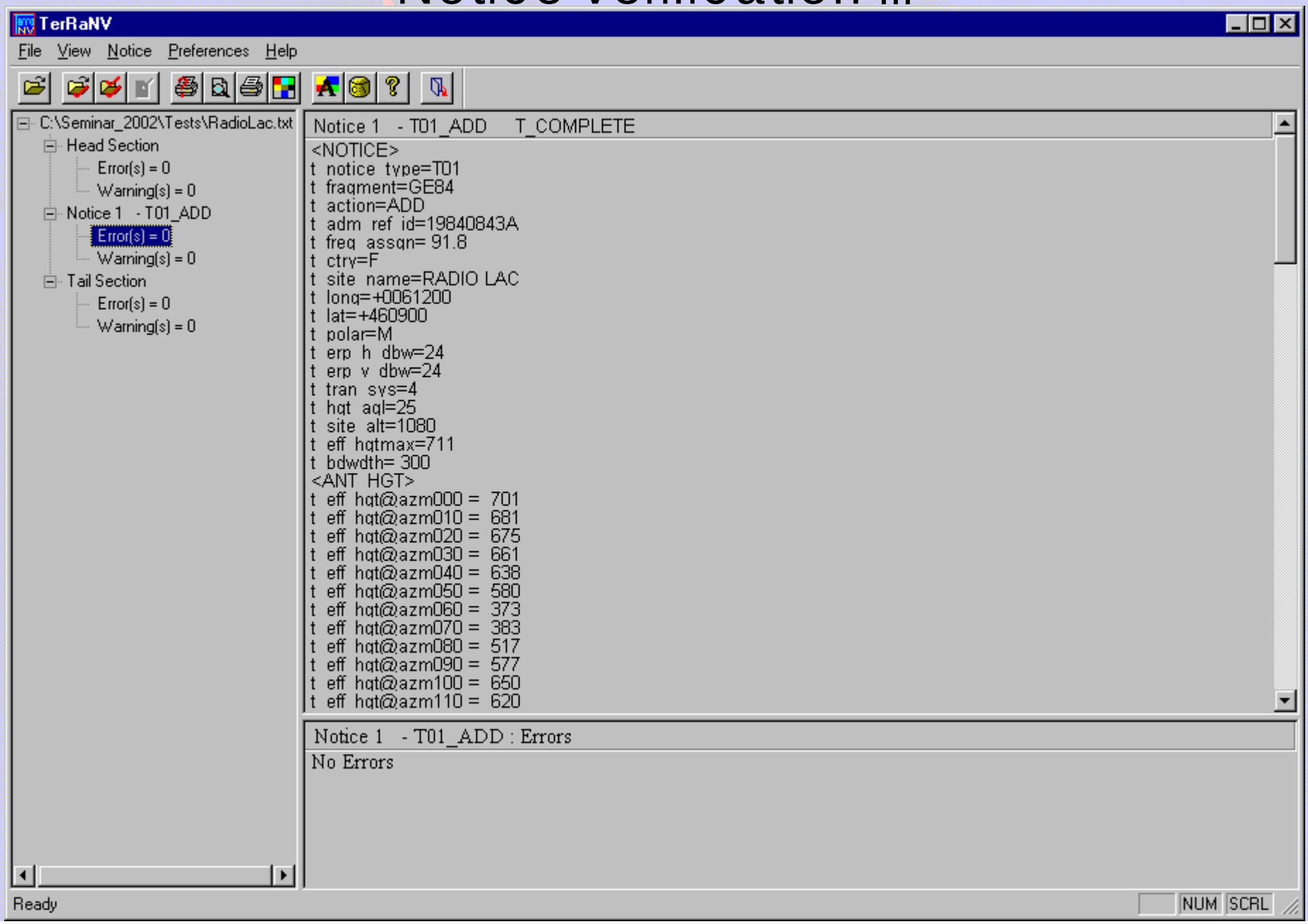
```
<HEAD>
t_d_sent = 2002-09-27
t_adm = SUI
comment = This is a BR
generated file
</HEAD>
<NOTICE>
t_notice_type=T01
t_fragment=GE84
t_action=ADD
t_adm_ref_id=19840843A
t_freq_assgn= 91.8
t_ctry=F
t_site_name=RADIO LAC
t_long=+0061200
t_lat=+460900
t_polar=M
t_erp_h_dbw=24
t_erp_v_dbw=24
t_tran_sys=4
t_hgt_agl=25
t_site_alt=1080
t_eff_hgtmax=711
t_bdwdth= 300
```



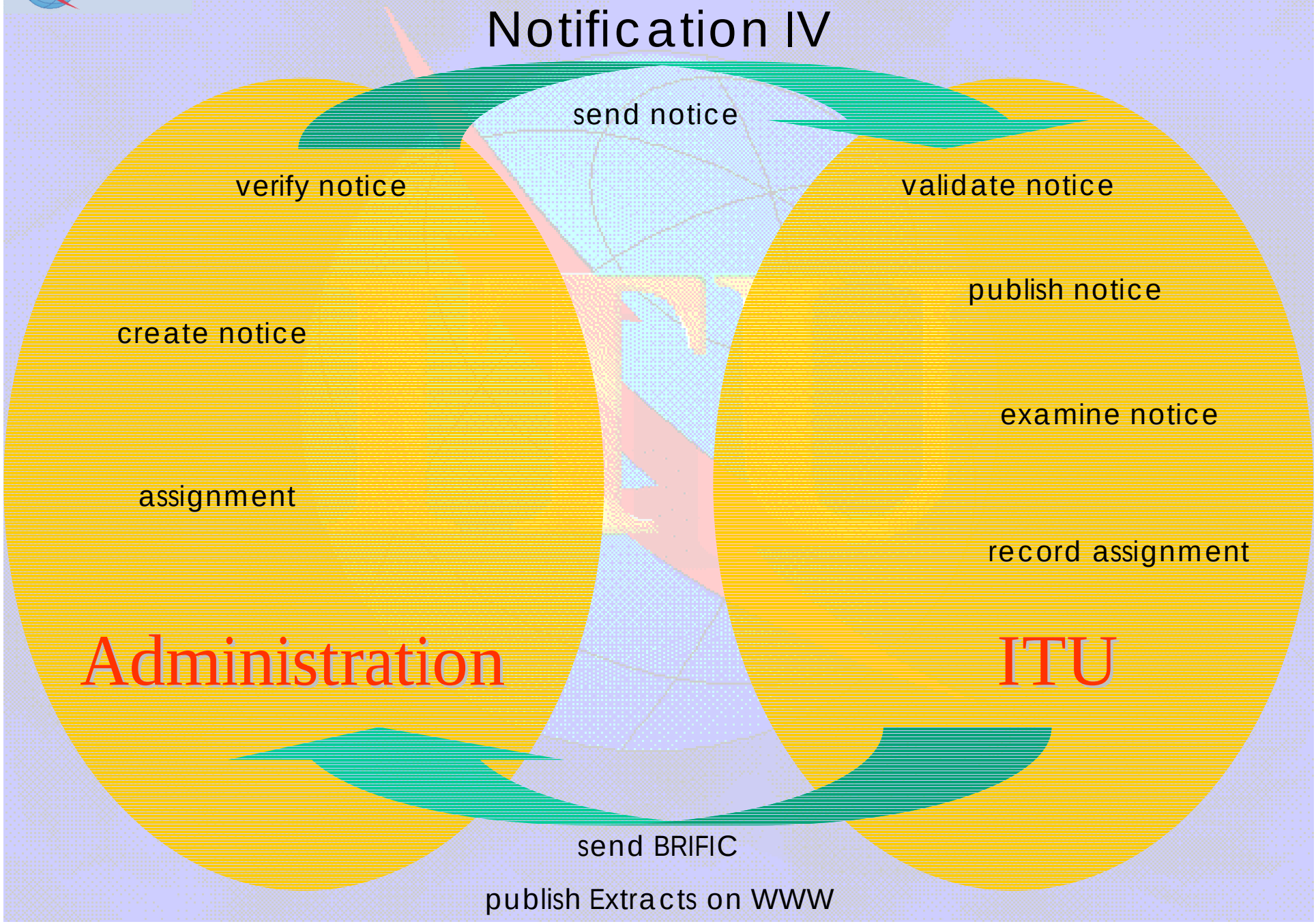
Notice verification II



Notice verification III



Notification IV



ITU / EBU Workshop on Digital Broadcasting 8-10 June 2004 Sofia, Bulgaria