



## *Radiocommunication Bureau*

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Addendum 1 to  
Circular Letter CR/118

23 April 1999

### **To Administrations of Member States of the ITU**

**Subject:** Additional information concerning the use of the Forms of notice and the file formats for electronic notification of frequency assignments to stations in the fixed, mobile and other terrestrial services (excepting the broadcasting service in the LF/MF and VHF/UHF bands).

**References:** BR Circular letter CR/118 of 31 March 1999.

To the Director General

Dear Sir or Madam,

1 As announced in Circular letter CR/118, I am communicating herewith Annex 4 of Circular-letter CR/118, which contains a detailed description of the data elements in the FXM component of the new Terrestrial Radiocommunication System (*TerRaSys*), relating to the use, as from 1 October 1999, of the new forms of notice and the related file formats for electronic notification of frequency assignments to stations in the fixed, mobile and other terrestrial services (excepting the broadcasting service in the LF/MF and VHF/UHF bands).

2 I wish also to inform you that all electronic files shall be sent to the Bureau's electronic mail address **brmail@itu.int**. If the file is long, it may be compressed as a .zip file and annexed to the mail. Administrations are requested to indicate as object of the mail "Terrestrial electronic notification" and clearly state the name of the administration sending the message, electronic return address, name and function of the sender.

3 The Bureau is ready to provide any additional information that your administration may request on this subject.

Yours faithfully,

Robert W. Jones  
Director, Radiocommunication Bureau

### Annex: 1

Distribution:

- Administrations of Member States of the ITU.
- Members of the Radio Regulations Board.

## ANNEX 4

(to Circular letter CR/118)

### **Additional information concerning the use of the forms of notice and the file formats for electronic notification concerning the frequency assignments to fixed, mobile and other services**

#### **1 Guidelines concerning the use of forms of notice for fixed, mobile and other services (excepting the broadcasting service in the LF/MF and VHF/UHF bands)**

1.1 Application of the procedures prescribed in the Radio Regulations requires the administration to supply information to another administration or to the Radiocommunication Bureau in the context of the modification of a Plan, a request for agreement, coordination of an assignment, or the notification to the Bureau with a view to updating the MIFR. The information to be supplied varies from case to case, depending on the intention and on the particular service, frequency band and type of station involved. Necessary details in this respect, concerning the terrestrial services, are included in Appendix S4 (Annexes 1A and 1B) as well as in the respective Regional Agreements. This Annex deals only with the submission of information to the Bureau - the exchange of information between administrations is a matter of agreement between administrations insofar as the content and format of the information is concerned.

1.2 Article S11 of the Simplified Radio Regulations, in provisions Nos. S11.2 - S11.8, specifies the conditions when a notification to the Bureau is necessary (these conditions apply to a transmitting station and to its associated receiving station). Provisions Nos. S11.9 - S11.11 specify further the conditions for notification of a frequency assignment to a land station for reception from mobile stations. Provisions Nos. S11.13 - S11.14 specify the cases when no notification is required. Provisions Nos. S11.17 - S11.21A specify the conditions when a typical station may be notified.

1.3 Article S11 also specifies the time-frame for submission of notices to stations in terrestrial services. The frequency assignment shall be notified normally after its bringing into use, but it may be notified also before the bringing into use. If the frequency assignment is notified before its bringing into use, then the relevant notices shall reach the Bureau:

- not earlier than **five years** before the assignment is brought into use, for those assignments that pertain to high altitude platform stations in the fixed service in the bands 47.2 - 47.5 GHz and 47.9 - 48.2 GHz (see S11.26; on the notice, these stations have to be identified by the symbol "HP" under item 6b);
- not earlier than **three years** before the assignment is brought into use, for those assignments that are involved in coordination with a satellite network (i.e., in the bands shared between terrestrial and space services, where the allocation to the space service comprises the space-to-Earth direction; see S11.25);
- not earlier than **three months** before the assignment is brought into use, for all other cases (see S11.24).

The frequency assignments which are notified in advance of their bringing into use shall be entered provisionally in the Master Register (if all other conditions are fulfilled). The provisional entry shall be deleted from the Master Register, following the appropriate procedure, if no confirmation is received that the assignment was effectively brought into use (S11.47).

1.4 Appendix S4 of the Radio Regulations, in its Annex 1A lists the characteristics of stations in the terrestrial services which are required for notification in every particular case. That information is further summarized in Annex 1B of Appendix S4, in terms of mandatory or optional information, for different notice types. All mandatory characteristics (in some cases referred to as "required in some cases"), as specified in that annex for the relevant type of notice, have to be submitted by the notifying administration; otherwise the notice will be declared incomplete and will be returned to the notifying administration (see S11.27).

1.5 In accordance with the provisions of Appendix S4, as revised by WRC-97, the Bureau has developed up-to-date "forms of notice", which represent an easy means for conveying the appropriate information, so as to conform with the statutory requirements of Appendix S4. These forms, when correctly completed, present all the information required in a particular case in a standard manner, which ensures that no essential information is omitted, and that the data is appropriate for immediate entry into the Bureau's computer based processing system (TerRaSys). Detailed description of the data fields, which appear in these forms of notice, and of additional keys used in the electronic notification, is given in Section 2 of this Annex.

1.6 For easy reference on the mandatory and optional data elements, as defined in Appendix S4, the Bureau, when developing the paper forms of notice, used the approach of shaded and non-shaded fields. In this context, the Bureau offers the following guidelines:

- 1.6.1 The non-shaded fields (as indicated in the paper forms) correspond to those characteristics of Appendix S4 which are indicated therein as "mandatory" or "one of the items". Consequently, both the paper notice forms and the corresponding electronic submissions have to contain data related to these data elements.
- 1.6.2 The shaded fields (as indicated in the paper forms) are to be filled-in only in specific cases. These fields generally correspond to optional characteristics of Appendix S4, to those characteristics of Appendix S4 which are indicated therein as "required in some cases", and to those characteristic of the recorded assignment which are required for unambiguous identification of the "target" (i.e., the recorded assignment or allotment which is intended to be modified or suppressed by the relevant submission, or the previously submitted notice which is to be withdrawn or otherwise amended).
- 1.6.3 In the context of the submissions for modification or suppression of a recorded assignment or allotment, as well as in the context of a withdrawal or other amendment of a notice, the following identifying elements have to be submitted (depending on the type of notice):
  - a) Administration Unique Identifier and Previously recorded Administration Unique Identifier (please note, that the current FMS database does not contain these uniquely identifying data); or
  - b) the combination of data items listed in the following table:

Paper notice	Electronic notice	Description	Notice Types
O-1a: Assigned frequency	t_trg_freq_assign	Assigned frequency of the target	T11, T12, T13, T14, T16, T17
O-1z: Channel number	t_trg_chan_no	Channel number of the allotment to be replaced, modified or suppressed	T15
O-6a: Class of station	t_trg_stn_cls	Class of station of the target	All
O-7a: Designation of emission	t_trg_emi_cls t_trg_bdwth_cde	Designation of emission of the target	All
O-7b: Class of operation	t_trg_op_cls	Class of operation of the target; only in the context of the fixed service in the bands 3 000 - 28 000 kHz	T11, T17
O-10b: Hours of operation	t_trg_op_hh_fr; t_trg_op_hh_to.	Hours of operation of the target	All
O-4c: Coordinates (O-5c for T13)	t_trg_long; t_trg_lat	<ul style="list-style-type: none"> <li>Coordinates of the target</li> <li>Coordinates of the centre of the circular area</li> </ul>	<ul style="list-style-type: none"> <li>T11, T12, T13, T16, T17</li> <li>T14</li> </ul>
O-4e: Geographic area, or standard area to which the typical station is applicable, or allotment area	t_trg_geo_type (electronic notice only) and t_trg_zone_id	<ul style="list-style-type: none"> <li>Geographic area, or standard area to which the typical station is applicable.</li> <li>Allotment area of the target</li> </ul>	<ul style="list-style-type: none"> <li>T14</li> <li>T15</li> </ul>

1.6.4 With respect to the data elements indicated in the other shaded fields (as indicated in the paper notices), the following guidance is provided:

- the reference frequency (item 1b, t\_freq\_carr) has to be submitted only in the context of non-symmetric emissions (e.g., J\*\*, H\*\*, R\*\*) or composite emissions (e.g., C\*\*);
- the preferred frequency band (item 1c, t\_band\_pref) has to be submitted only in the context of a request for assistance under the procedure of Resolution 300 (on notice type T12) or under the procedure of Appendix S25 (on notice type T15);
- the information on the azimuth of maximum radiation (item 9a, t\_azm\_max\_e), angular width of radiation main lobe (beamwidth, item 9c, t\_bmwidth) and maximum antenna gain (item 9g, t\_gain\_max) has to be supplied only when the transmitting antenna is a directional one (indicated with symbol D in item 9, element t\_ant\_dir); similarly, the information on the azimuthal sector for rotating antenna (item 9ab, t\_azm\_fr and t\_azm\_to in the subsection ROTATIONAL) has to be supplied only when a rotating antenna is used;
- the submission of the information on the elevation angle of the site (item 9b, t\_elev), polarization of the emission (item 9d, t\_polar), height of the antenna above ground level (item 9e, t\_hgt\_agl), altitude of the site above sea level (item 9ea, t\_site\_alt) and the reference radiation antenna pattern (item 9j, t\_ant\_ref) is required only in those cases where the relevant emission is situated in a frequency band shared between space radiocommunication and terrestrial radiocommunication services on an equal basis;

- the submission of the information on the maximum length of the circuit (item 5g, t\_dist\_max) is an option which the administrations may use if the receiving areas are other than circular;
- the submission of the information on frequency deviation (item 7e, t\_freq\_dev), energy dispersal (item 7f, t\_energy\_dsp), maximum power density (item 8ab, t\_pwr\_dens) and receiving system noise temperature (item 9k, t\_noise\_temp) is an option. Administrations may furnish this information to the Bureau, at their discretion (normally when such information has been used as a basis to effect coordination with another administration).

## **2 Detailed data information and validation rules**

### **2.1 The character set used in the file (only for electronic notification)**

#### **t\_char-set**

This information is optional. If not specified, the default value is ISO-8859-1. This is also currently the only acceptable value.

The field is provided in the **HEAD** section.

### **2.2 The date when the file is sent (only for electronic notification)**

#### **t\_d\_sent**

This information is optional. It is equivalent to the date of the covering letter accompanying paper notices. It shall be a valid date. This field shall not be mixed up with the date of the notice (**t\_d\_adm\_ntc**) that also appears on individual paper notices.

For paper notices it should be presented in DDMMYYYY format as follows:

02011999 meaning 2 January 1999

On electronic notices this item must be in YYYY-MM-DD format, for example:

1999-01-02 meaning 2 January 1999

For electronic notices the field is provided in the **HEAD** section.

### **2.3 The electronic mail address (only for electronic notification)**

#### **t\_email\_addr**

This information is optional. If notified, it will be used by the Bureau for any correspondence related to the completeness and validity of the notices included in the file.

The field is provided in the **HEAD** section.

### **2.4 Item B - Notifying administration**

#### **t\_adm in the HEAD section**

(All notice types)

This information is mandatory. It shall correspond to the ITU three-character code of the notifying administration. Note that this information is in the header of electronic notices and therefore applies to all notices in the file, whereas it appears on each individual paper notice.

**2.5 Notice type (only for electronic notification)**

**t\_notice\_type**

This information is mandatory. The allowed values are T11, T12, T13, T14, T15, T16 and T17. The field is provided in the **NOTICE** section.

**2.6 Date of Notice**

**t\_d\_adm\_ntc**

The date that the administration gives to the notice. It may be different from the date at which the file or the covering letter is sent. This information is optional.

For paper notices it should be presented in DDMMYYYY format as follows:

02011999 meaning 2 January 1999

On electronic notices this item must be in YYYY-MM-DD format, for example:

1999-01-02 meaning 2 January 1999

For electronic notices the field is provided in the **NOTICE** section.

**2.7 The part of the database to be updated (only for electronic notifications)**

**t\_fragment**

This information is mandatory. Definition of each fragment is given in paragraph 2 of Annex 1 to the circular letter. The allowed values depend on the notice type and the provision of a regulating document as follows:

Fragment	Notice type and the provision of a regulating document
NTFD_RR	T11 (S11.2), T12 (S11.2), T13 (S11.9), T14 (S11.17), T17 (S11.2)
Req_agrt	T11 (S9.21), T 12 (S9.21), T13 (S9.21)
AP25	T15 (APS25/1.1.1, APS25/1.1.2, APS25/1.25)
GE85M	T16 (GE85 (R1-MAR), GE85(R1-AER))
GE85N	T12 (GE85N); suppressions only
Res_300	T12 (RS300), T13 (RS300)

The field is provided in the **NOTICE** section.

**2.8 Provision of a document regulating submission of information**

**t\_prov**

On the paper notices one box and only one shall be checked.

On electronic notices the allowed values for field **t\_prov** are the following:

S11.2 for **t\_notice** equal to T11, T12, T17

S9.21 for **t\_notice** equal to T11, T12, T13

S11.9 for **t\_notice** equal to T13

S11.17	for <b>t_notice</b> equal to T14
GE85N	for <b>t_notice</b> equal to T12 (suppressions only)
GE85 (R1-MAR)	for <b>t_notice</b> equal to T12
GE85(R1-AER)	for <b>t_notice</b> equal to T12
RS300	for <b>t_notice</b> equal to T12, T13
APS25/1.1.1	for <b>t_notice</b> equal to T15
APS25/1.1.2	for <b>t_notice</b> equal to T15
APS25/1.25	for <b>t_notice</b> equal to T15

For electronic notices the field is provided in the **NOTICE** section.

## 2.9 ADD/MOD/SUP/WITHDRAW indicator

### **t\_action**

On the paper notices, one box and only one shall be checked.

On electronic notices, **t\_action** may have the following values:

ADD	to add an assignment
MODIFY	to modify an assignment
SUPPRESS	to suppress an assignment
WITHDRAW	to withdraw a notice under treatment

Please note that a modification notice should contain all necessary information, as it will completely replace the existing assignment in the concerned fragment.

For electronic notices the field is provided in the **NOTICE** section.

## 2.10 Resubmission indicator

(Notices T11, T12 and T13)

### **t\_is\_resub**

This indicator is applicable only in the context of the notification procedure of Article S11 of the Radio Regulations, and only for those frequency assignment notices that are subject to coordination procedures under S9.16, S9.18 or S9.19 (i.e., in some bands which are allocated on a shared bases between terrestrial and space services).

On the paper notices T11, T12 and T13, the box for resubmission shall be checked only if this notice is a resubmission within 6 months:

- a) under the provisions of No. S11.41 of a notice which was returned under the provisions of No. S11.38 (unfavorable finding with respect to the probability of harmful interference, following the examination under S11.33, with respect to frequency assignments of those administrations with which the coordination procedure under S9.18 could not be successfully completed); or
- b) under the provisions of No. S11.43C of a notice which was returned under the provisions of Nos. S11.37 (unfavourable finding with respect to the conformity with the procedures relating to coordination with other administrations, following the examination under

S11.32, for those cases when No. S11.33 does not apply, i.e., in the case of coordination under S9.16 or S9.19); and for which the notifying administration did complete the coordination procedure under S9.16 or S9.19; or

- c) under the provisions of No. S11.43D of a notice which was returned under the provisions of Nos. S11.37 (unfavourable finding with respect to the conformity with the procedures relating to coordination with other administrations, following the examination under S11.32, for those cases when No. S11.33 does not apply, i.e., in the case of coordination under S9.16 or S9.19) and for which the notifying administration requested the Bureau to effect the required coordination procedure under S9.16 or S9.19; in this case the box "Other information ..." shall also be checked and the administration shall provide all supporting documentation. This option is available only for paper notices.

In all other cases on the paper notices T11, T12, T13, T14 and T17, the box for first notification shall be checked.

On electronic notices T11, T12 and T13, the resubmission indicator is equal to **TRUE** if this notice is a resubmission of a notice which was returned under the conditions specified above. The indicator is equal to **FALSE** if this is *not* a resubmission. **FALSE** is the default if this key is not specified which corresponds to a first notification by default.

For electronic notices the field is provided in the **NOTICE** section.

## **2.11 Administration Unique Identifier**

### **t\_adm\_ref\_id**

(All notice types)

This field is optional for actions **ADD** and **MODIFY**. Administration Unique Identifier shall not be notified in case of action **SUPPRESS** or **WITHDRAW**.

The allowed characters for this field are limited to upper-case letters A to Z, digits 0 to 9, space, parenthesis, dash and forward slash for both electronic and paper notices. If notified, the field may be used in the future for modifying, deleting or, generally for making reference to this particular assignment. However, if notified, this field shall be unique for the notifying administration in the given fragment.

Administrations should take care not to confuse this new field with the older, and now obsolete, field named "Administration Serial Number". Duplicate values are *not* allowed in this new field. An administration should not use this new field unless it intends to use this field as its *unique* identifier.

For electronic notices the field is provided in the **NOTICE** section.

## **2.12 Previously Recorded Administration Unique Identifier**

### **t\_trg\_adm\_ref\_id**

(All notice types)

This field may be used to uniquely identify the assignment to be modified or suppressed, or the notice under treatment to be updated or withdrawn. For an additional notice, this field shall not be notified.

For electronic notices the field is provided in the **NOTICE** section.



### **2.13 Item 1a - Assigned Frequency**

#### **t\_freq\_assgn**

(All notice types with exception of T15)

This information is mandatory for ADD and MODIFY actions. It shall not be notified in case of action SUPPRESS or WITHDRAW. The Assigned Frequency is always expressed in MHz in the electronic notice format. On paper notice forms it can be specified in kilohertz (symbol k), in megahertz (symbol M) or in gigahertz (symbol G) using rule below.

Symbols to be used:

- kHz for frequencies up to 28 000 kHz inclusive;
- MHz for frequencies above 28.000 MHz up to 10 500 MHz inclusive;
- GHz for frequencies above 10.500 GHz.

The allowed frequency range for T17 notice type is up to 28 000 kHz.

The black dot on paper forms indicate the position of the decimal point.

The Assigned Frequency can be notified with the precision of 4 characters after the decimal point for paper notices. There is no such limitation for electronic notices.

For electronic notices the field is provided in the **NOTICE** section.

### **2.14 Item O-1a - Assigned Frequency of the Target**

#### **t\_trg\_freq\_assgn**

(All notice types with exception of T15)

For actions MODIFY or SUPPRESS or WITHDRAW the Assigned Frequency of the Target is mandatory and used as a parameter to uniquely identify the assignment to be modified or suppressed, or the notice to be updated or withdrawn, if the Administration Unique Identifier of the Target is not given. For action ADD this information shall not be provided.

The same rules as for item 1a - t\_freq\_assgn shall apply.

For electronic notices the field is provided in the **NOTICE** section.

### **2.15 Item 1aa - Usable Frequency Range**

(Notice T17)

#### **t\_freq\_rng\_u**

Indicate the Usable Frequency Range in kHz or MHz on the paper notice format and in MHz only in the electronic notice format. This information is mandatory if under item 1a - Assigned Frequency only the centre assigned frequency of the frequency band to be used for the adaptive system is notified. The usable frequency range corresponds to the difference between the maximum and minimum assignable frequencies of a distinct frequency band.

For electronic notices the field is provided in the **NOTICE** section.

## **2.16 Item 1b - Reference (Carrier) Frequency**

### **t\_freq\_carr**

(All notice types with exception of T15)

This information is mandatory for ADD and MODIFY actions if the Reference (carrier) frequency is different from the centre of the assigned frequency band (if the first symbol in the Class of Emission is C, H, J or R). The value of the Reference Frequency should be equal to the value of the Assigned Frequency plus or minus the half of the Necessary Bandwidth (item 7a). For action SUPPRESS or WITHDRAW this information shall not be provided.

The same rules as for item 1a - t\_freq\_assgn shall apply.

For electronic notices the field is provided in the **NOTICE** section.

## **2.17 Item 1c - Preferred band (MHz)**

(Notices T12 and T15)

### **t\_band\_pref**

For the Notice Types T12 (RS300 only) and T15 the preferred frequency band in MHz. This item is optional and it shall not be notified if item 1a - Assigned frequency (T12) or item 1x - Channel number (T15) is notified. Possible values are: 04, 06, 08, 12, 16, 18, 22, and 25.

For electronic notices, the leading zero is not required, and the field is provided in the **NOTICE** section.

## **2.18 Item 1x - Channel number (assigned)**

(Notice T16)

### **t\_chan\_no**

For the Notice Type T16 the channel number of the proposed plan assignment. This information is optional, but it shall be notified in the case of a non-unique ship station assignment. Possible values are the channel numbers listed in Annex III, Tables 1 and 3, of the Regional Agreement GE85(R1-MAR).

For electronic notices the field is provided in the **NOTICE** section.

## **2.19 Item 1x - Channel number (proposed)**

(Notice T15)

### **t\_chan\_pref**

For the Notice Type T15 the channel number of the proposed allotment. This information is mandatory, but it shall not be notified if item 1c - Preferred band is notified. Possible values are the channel numbers listed in Section II of Appendix S25.

For electronic notices the field is provided in the **NOTICE** section.

## **2.20 Item 1y - Channel number (alternative proposal)**

(Notice T15)

### **t\_chan\_alt**

For the Notice Type T15 the channel number of the alternative proposed allotment. This information is optional, but it shall not be notified if item 1c - Preferred band is notified. Possible values are the channel numbers listed in Section II of Appendix S25.

For electronic notices the field is provided in the **NOTICE** section.

## **2.21 Item 1z - Channel number of channel to be replaced**

(Notice T15)

### **t\_trg\_chan\_no**

For Notice Type T15, the channel number of the target. This information is mandatory for an allotment to be replaced, modified or suppressed, or for the notice under treatment to be amended or withdrawn. Possible values are the channel numbers listed in Section II of Appendix S25.

For electronic notices the field is provided in the **NOTICE** section.

## **2.22 Item 2c - Date of bringing into Use**

### **t\_d\_inuse**

(All notice types with exception of T16)

The date of bringing assignment into use is mandatory for ADD and MODIFY actions. It shall not be notified in case of action SUPPRESS or WITHDRAW. For paper notices it should be presented in DDMMYYYY format as follows:

02011999 meaning 2 January 1999

On electronic notices this item must be in YYYY-MM-DD format, for example:

1999-01-02 meaning 2 January 1999

For electronic notices the field is provided in the **NOTICE** section.

## **2.23 Item 3a - Call Sign, Station Identification**

(Notices T11, T12, T17)

### **t\_call\_sign, t\_station\_id**

Either the Call Sign or the Station Identification is mandatory for ADD and MODIFY actions for all classes of station with the exception of radiodetermination and radio-relay stations for which this information is optional. These parameters shall not be notified in case of action SUPPRESS or WITHDRAW. If the Call Sign is provided, the Station Identification shall not be furnished.

The first three characters of the Call Sign shall correspond to the Table of allocation of international call sign series contained in Appendix S42 of the RR. Multiple call signs for one assignment (notice) are allowed.

Different identifying information like a name of station, a flight identification number, a maritime mobile service identity, etc. can be used for the Station Identification as described in Article S19 of the Radio Regulations. If the Station Identification is provided, the Call Sign shall not be furnished. Multiple Station Identifications are not permitted.

For electronic notices the field is provided in the **NOTICE** section.

## **2.24 Item 4a - Name of the location of the transmitting station**

(Notices T11, T12, T16, T17)

### **t\_site\_name**

This item is mandatory for ADD and MODIFY actions. It shall not be notified in case of action SUPPRESS or WITHDRAW. Indicate the name of the site where the corresponding station is located. Up to 30 characters can be used for notification of a station name. Standard abbreviations may be used as shown in Table 4A1 of the Preface to the International Frequency List in order to compress long station names. For site names it is recommended to use upper-case letters A to Z and digits from 0 to 9 and space.

For electronic notices the Name of the location of the transmitting station shall be provided in the **NOTICE** section.

## **2.24bis Item 4aa - Name of the location of the intended coast station**

(Notice T15)

This item is mandatory for submissions under APS25/1.1.1. It shall not be notified in case of submissions under APS25/1.1.2 or APS25/1.25. Indicate the name of the site where the corresponding station is located. Up to 30 characters can be used for notification of a station name. Standard abbreviations may be used as shown in Table 4A1 of the Preface to the International Frequency List in order to compress long station names. For site names it is recommended to use upper-case letters A to Z and digits from 0 to 9 and space.

For electronic notices the Name of the location of the intended coast station shall be provided in the subsection named **COAST\_STATION**.

## **2.25 Item 5a - Name of the Location of the Receiving Station**

(Notices T11, T13, T17)

### **t\_site\_name**

The nature of information to be notified is described in No 2.24.

For notices T11 and T13 this item is mandatory for ADD and MODIFY actions.

For T17 notice this item is mandatory for ADD and MODIFY actions if a circular receiving area is not provided.

The item shall not be notified in case of action SUPPRESS or WITHDRAW.

For electronic notices **t\_site\_name** shall be notified in the following sections:

- for T11 and T17 notices the Name of the location of the receiving station shall be provided in sub-subsection named **RX\_STATION** (field **t\_geo\_type** shall be equal to **POINT**).

- for T13 notice the Name of the location of the receiving station shall be provided in the **NOTICE** section.

## **2.26 Item 4b - Geographic Area**

(Notices T11, T12, T16 and T17)

### **Item 5b - Geographic Area**

(Notices T11, T13, T17)

#### **t\_ctry**

The items shall not be notified in case of action **SUPPRESS** or **WITHDRAW**.

Item 4b is mandatory for **ADD** and **MODIFY** actions.

Item 5b is mandatory for **ADD** and **MODIFY** actions for T11 and T13 notices. For T17 notice it is mandatory for **ADD** and **MODIFY** actions if a circular receiving area is not notified.

Indicate the geographical area in which the station is located using ITU three-character codes listed in Table B1 of the Preface to the International Frequency List.

For electronic notices **t\_ctry** shall be notified in the following sections:

- the Geographic area in which the transmitting station is located for notices T11, T12, T16 and T17 shall be provided in **NOTICE** section;
- the Geographic Area in which the receiving station is located for T13 notice shall be provided in **NOTICE** section;
- the Geographic Area in which the receiving station is located for T11 and T17 notices shall be provided in sub-subsection named **RX\_STATION** (in this case field **t\_geo\_type** shall be equal to **POINT** or **COUNTRY**).

## **2.27 Geographical coordinates**

### **Item 4c - Geographical Coordinates of the Transmitting Antenna Site**

(Notices T11, T12, T16 and T17)

### **Item 4c - Geographical Coordinates of the Centre of the Circular Area**

(Notices T13 and T14)

### **Item 5c - Geographical Coordinates of the Receiving Antenna Site**

(Notices T11, T12, T13 and T17)

### **Item 5e - Centre of the Circular Receiving Area (Notice T12, T17) Centre of the Service Range (Notice T16)**

#### **t\_long, t\_lat**

The items shall not be notified in case of action **SUPPRESS** or **WITHDRAW**.

Geographical Coordinates of the Transmitting Antenna Site are mandatory for actions **ADD** and **MODIFY**.

Geographical Coordinates of the Centre of the Circular Area are mandatory for actions **ADD** and **MODIFY** if the Geographic Area or Standard Area is not notified.

Geographical Coordinates of the Receiving Antenna Site for T11 and T13 notices are mandatory. For T12 and T17 notices this information is mandatory if neither an area of the receiving station(s) nor a circular receiving area are notified.

Geographical Coordinates of the Centre of the Circular Receiving Area for T12 notice are mandatory if neither an area of the receiving station(s) nor coordinates are notified.

Geographical Coordinates of the Centre of the Circular Receiving Area for T17 notice are mandatory if neither a receiving station nor an area of the receiving station(s) are notified.

Geographical Coordinates of the Centre of the Service Range for notice T16 are mandatory.

Please note that the format of coordinates for paper notices and electronic ones is different as indicated below.

Leading zeros have to be provided in all cases.

### Format of geographical coordinates

	Paper notices	Electronic notices
<b>Longitude</b>	DDMMSS(E/W) Example: 0123454W	+(-)DDMMSS Example: -0123454
<b>Latitude</b>	DDMMSS(N/S) Example: 45N2314	+(-)DDMMSS Example: +452314

where

D - degrees, M - minutes, S - seconds, E - East, W - West, N - North, S - South.

Notification of seconds is optional for all cases with the exception of geographical coordinates of stations operating in the bands shared between terrestrial and space services with equal rights.

The geographical coordinates are checked vis-à-vis the ITU Digitized World Map (IDWM) to verify that the corresponding point does not fall in another geographical area than the one notified or in the sea at the distance more than 10 km from the border.

For electronic notices **t\_long** and **t\_lat** shall be notified in the following sections:

- the Geographical Coordinates of the Transmitting Antenna Site for T11, T12, T16 and T17 notices shall be provided in the **NOTICE** section;
- the Geographical Coordinates of the Centre of the Circular Area for T14 notice shall be provided in the **NOTICE** section;
- the Geographical Coordinates of the Centre of the Circular Area for T13 notice shall be provided in the **TX\_STATION** sub-subsection (in this case field **t\_geo\_type** shall be equal to **CIRCLE**);
- the Geographical Coordinates of the Receiving Antenna Site for T11 and T17 notices shall be provided in the **RX\_STATION** sub-subsection if a single receiving point is furnished (in this case field **t\_geo\_type** shall be equal to **POINT**);
- the Geographical Coordinates of the Receiving Antenna Site for T11 and T17 notices shall be provided in the **POINT** sub-sub-subsection if the receiving area is identified in terms of a number of receiving points (items 5a and 5b furnished) or in terms of a geographical area described by several sets of geographical coordinates (without information in items 5a and 5b). In these cases field **t\_geo\_type** shall be equal to **MULTIPOINT**;

- the Geographical Coordinates of the Receiving Antenna Site for T12 notice shall be provided in the **POINT** sub-sub-subsection (in this case field **t\_geo\_type** in an **RX\_STATION** sub-sub-subsection shall be equal to **MULTIPOINT**);
- the Geographical Coordinates of the Receiving Antenna Site for T13 notice shall be provided in the **NOTICE** section (in this case field **t\_geo\_type** shall be equal to **POINT**);
- the Centre of the Circular Receiving Area for T12 and T17 notices shall be provided in the **RX\_STATION** sub-sub-subsection (in this case field **t\_geo\_type** shall be equal to **CIRCLE**);
- the Centre of the Service Range for T16 notice shall be provided in the **RX\_STATION** sub-sub-subsection.

### **2.27bis Item 4ca - Geographical Coordinates of the intended coast station**

(Notice T15)

Geographical Coordinates of the intended coast station are mandatory if information under item 4aa is provided.

The same rules as for item 4c - Geographical coordinates shall apply.

For electronic notices, the Geographical Coordinates of the Intended Coast Station(s) shall be provided in the **COAST\_STATION** subsection;

### **2.28 Geographical Coordinates of the Target**

#### **Item O-4c - Geographical Coordinates of the Transmitting Antenna Site of the Target**

(Notices T11, T12, T16 and T17)

#### **Item O-4c - Geographical Coordinates of the Centre of the Circular Area of the Target**

(Notice T14)

#### **Item O-5c - Geographical Coordinates of the Receiving Antenna Site of the Target**

(Notice T13)

#### **t\_trg\_long t\_trg\_lat**

Together with some other parameters of the target, these fields shall be used to uniquely identify the assignment to be modified or suppressed, or the notice under treatment to be amended or withdrawn, if the Administration Unique Identifier of the target is not given. For an additional notice, these fields shall not be notified.

The same rules as for item 4c - Geographical coordinates shall apply.

For electronic notices the fields are notified in the **NOTICE** section.

### **2.29 Item 4e - The Geographical Area or Standard Area (Notices T13, T14) Allotment area (Notice T15)**

#### **Item 5d - Service Area (Notice T15)**

##### **Area of the Receiving Stations (Notice T17)**

#### **t\_zone\_id**

The items shall not be notified in case of action **SUPPRESS** or **WITHDRAW**. In case of actions **ADD** or **MODIFY** the rules below apply.

The Geographical Area or Standard Area is mandatory for T13 and T14 notices if a circular area is not provided.

The Allotment area for notice T15 is mandatory.

The Service Area for notice T15 is mandatory.

The Area of the Receiving Stations for notice T17 is mandatory if neither a receiving station (defined by name, geographic area and coordinates) nor a circular receiving area are notified.

Indicate only standard defined areas, the definition of which is found in the Radio Regulations or in Tables B1 and 4E1 of the Preface to the International Frequency List.

These areas may be either:

- an ITU three-character geographical area symbol; or
- a maritime Zone in the case of transmitting or receiving coast stations; or
- an aeronautical Zone as used in Appendix S27 to the Radio Regulations.

For electronic notices **t\_zone\_id** shall be notified in the following sections:

- the Geographical Area or Standard Area for T13 notice shall be provided in the **TX\_STATION** sub-subsection (in this case field **t\_geo\_type** shall be equal to **COUNTRY** if the value comes from Table B1 or **ZONE** if the value comes from Table 4E1);
- the Geographical Area or Standard Area for T14 notice shall be provided in the **NOTICE** section;
- the Allotment Area for T15 notice shall be provided in the **NOTICE** section;
- the Service Area for T15 notice as well as the Area of the Receiving Stations for notice T17 shall be provided in the **RX\_STATION** sub-subsection (in this case field **t\_geo\_type** shall be equal to **COUNTRY** if the value comes from Table B1 or **ZONE** if the value comes from Table 4E1).

### **2.30 Item O-4e - The Geographical Area or Standard Area of the Target (Notice T14) Allotment Area of the Target (Notice T15)**

#### **t\_trg\_zone\_id**

In combination with some other parameters of the target, this field shall be used to uniquely identify the assignment/allotment to be modified or suppressed, or the notice under treatment to be amended or withdrawn, if the Administration Unique Identifier of the target is not given. For an additional notice, these fields shall not be notified.

For electronic notices the fields are notified in the **NOTICE** section.

### **2.31 Item 4d - Nominal Radius of the Circular Transmitting Area**

(Notices T13, T14)

### **Item 5f - Nominal Radius of the Circular Receiving Area (Notices T12 and T17) Nominal Service Range (Notice T16)**

#### **t\_radius**

The items shall not be notified in case of action **SUPPRESS** or **WITHDRAW**. In case of actions **ADD** or **MODIFY** the rules below apply.



Nominal Radius of the Circular Transmitting Area for notices T13 and T14 is mandatory if the Geographical Area is not provided.

Nominal Radius of the Circular Receiving Area for notice type T12 (item 5f) is mandatory (together with item 5e - Geographical centre of the circular receiving area) if neither the Area of the receiving stations (item 5d) nor the Multipoint Coordinates (item 5c) are provided.

Nominal Radius of the Circular Receiving Area for notice type T17 is mandatory if neither a receiving station nor the Area of the receiving stations are provided.

Nominal Service Range for T16 notice is mandatory.

The Radius of Circular Area shall be always notified together with the geographical coordinates of the centre of the Circular Area.

Indicate the Nominal Radius or Nominal Service Range in kilometres, for example.

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For electronic notices **t\_radius** shall be notified in the following sections:

- Nominal Radius of the Circular Transmitting Area for notice T13 shall be provided in the **TX\_STATION** sub-subsection (in this case field **t\_geo\_type** shall be equal to **CIRCLE**);
- Nominal Radius of the Circular Transmitting Area for notice T14 shall be provided in the **NOTICE** section;
- Nominal Radius of the Circular Receiving Area for notices T12 and T17 as well as the Nominal Service Range for T16 notice shall be provided in the **RX\_STATION** sub-subsection (in this case field **t\_geo\_type** shall be equal to **CIRCLE**).

### 2.32 Indicator - Type of Geographic Area

(Electronic notice T14 only)

#### **t\_geo\_type**

Indicate the type of Geographic Area or Standard Area to which the typical station is applicable. The possible values are COUNTRY when the area is specified as an ITU three-character code for a Geographic Area, CIRCLE when the area is specified as a circle, or ZONE when the area is specified as a Standard Area using a designation other than the ITU three-character code.

The indicator shall be provided in the **NOTICE** section for T14 notice. For notices T11, T12, T13, T15, T16 and T17 this field is not notified at the level of **NOTICE**.

### 2.33 Indicator - Type of Geographic Area of the Target

(Electronic notice T14 only)

#### **t\_trg\_geo\_type**

Indicate the type of Geographic Area or Standard Area of the assignment to be modified or suppressed, or of the notice under treatment to be updated or withdrawn. The possible values are COUNTRY when the area is specified as an ITU three-character code for a Geographic Area, CIRCLE when the area is specified as a circle, or ZONE when the area is specified as a Standard Area using a designation other than the ITU three-character code.

The indicator shall be provided in the **NOTICE** section for T14 notice. For notices T11, T12, T13, T15, T16 and T17 this field is not notified.

### **2.34 Indicator Type of Geographic Area (in RX\_STATION)**

(Electronic notices only - T11, T12, T15 and T17)

#### **t\_geo\_type**

For Notice Types T11, T12, T15, T16 and T17 indicate the type of geographic area describing the location of the receiving station.

For Notice Type T11, the possible values are POINT when the area is specified as a single point, COUNTRY when the area is specified as an ITU three-character code for a Geographic Area, MULTIPOINT when the area is specified as a series of points, and ZONE when the area is specified as a Standard Area using a designation other than the ITU three-character code.

For Notice Type T12, the possible values are CIRCLE when the area is specified as a circle, MULTIPOINT when the area is specified as a series of points, and ZONE when the area is specified as a Standard Area using a designation other than the ITU three-character code.

For Notice Type T15, the possible value is ZONE.

For Notice Type T16, the possible value is CIRCLE.

For Notice Type T17, the possible values are POINT when the area is specified as a single point, COUNTRY when the area is specified as an ITU three-character code for a Geographic Area, CIRCLE when the area is specified as a circle, MULTIPOINT when the area is specified as a series of points, and ZONE when the area is specified as a Standard Area using a designation other than the ITU three-character code.

The indicator shall be provided in the **RX\_STATION** sub-subsection.

### **2.35 Indicator - Type of Geographic Area (TX\_STATION)**

(Electronic notice T13 only)

#### **t\_geo\_type**

For Notice Type T13 indicate the type of Geographic Area or Standard Area in which the mobile transmitting station is operating.

The possible values are COUNTRY when the area is specified as an ITU three-character code for a Geographic Area, CIRCLE when the area is specified as a circle, or ZONE when the area is specified as a Standard Area using a designation other than the ITU three-character code.

The indicator shall be provided in the **TX\_STATION** sub-subsection.

### **2.36 Item 5g - Maximum Length of the Circuit**

(Notices T11, T12, T15 and T17)

#### **t\_dist\_max**

The maximum length of the circuit (kilometres) for receiving areas other than circular. This information is optional.

For electronic notices this field shall be provided in the **ANTENNA** subsection.

### 2.37 Item 6a - Class of Station

(All notice types)

#### t\_stn\_cls

This information is mandatory for ADD and MODIFY actions. It shall not be notified in case of action SUPPRESS or WITHDRAW. Indicate the class of station using symbols appearing in Table 6A1 of the Preface to the International Frequency List.

The allowed values, in terms of notice type are given below;

Notice type	Allowed value of class of station (item 6a)
T11	FX
T12	AL, BC <sup>1</sup> , FA, FB, FC, FD, FG, FL, FP, LR, NL, OE, RN, SM, SS
T13	AM, MA, ML, MO, MR, MS, NR, OD, RM, SA
T14	AL, FA, FB, FC, FD, FG, FL, FP, LR, NL, OE, RN, SM, SS
T15	FC
T16	AL, FC
T17	FX, FA, FB, FC <sup>2</sup> , FD <sup>3</sup> , FL

For electronic notices this field shall be provided in the **NOTICE** section.

### 2.38 Item O-6a - Class of Station of the Target

(All notice types except T15)

#### t\_trg\_stn\_cls

In combination with other parameters of the target, this field shall be used to uniquely identify the assignment to be modified or suppressed, or the notice under treatment to be updated or withdrawn, if the Administration Unique Identifier of the target is not given. For an additional notice, this field shall not be notified.

The same rules as for item 6a - Class of station shall apply.

For electronic notices this field shall be provided in the **NOTICE** section.

### 2.39 Item 6b - Nature of Service/System

(All notice types)

#### t\_nat\_srv

This information is mandatory for ADD and MODIFY actions for some classes of station (e.g., FD, FG, FX). It shall not be notified in case of action SUPPRESS or WITHDRAW. Indicate the nature of service using symbols appearing in Table 6B1 of the Preface to the International Frequency List.

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<sup>1</sup> In the non-planned bands below 28 000 kHz.

<sup>2</sup> In the non-planned bands.

<sup>3</sup> In the non-planned bands.

The allowed values, in terms of class of station, are given below:

<b>Class of station</b>	<b>Allowed value of nature of service (item 6b)</b>
AL, AM, NL, NR, RM, RN	OT, RC, RD, RG, RT
BC	blank
FA, FB, FC, FL	CO, CP, CR, CV, FS, OT, AS
FP MA <sup>4</sup> , ML, MS, MO	CO, CP, CR, CV, FS, OT
FD, FG	CO, CV, OT, AS <sup>4</sup>
FX	AX, AS, CO, CP, CR, CV, HP, MX, OT, PX, ST
LR, MR	OT
OD, OE	CO, OT
SA, SM, SS	CO, CV, OT

For T17 notice type the only allowed value is AS (adaptive system).

Multiple codes for the Nature of Service/System are possible for one assignment (notice).

For electronic notices this field shall be provided in the **NOTICE** section.

Attention of administrations is drawn to the fact that the following new symbols have recently been introduced for Nature of Service/System:

AS - Station using adaptive systems.

AX- Fixed station used for provision of services related to aircraft flight safety.

HP - Fixed station using high altitude platform.

ST - Fixed station using tropospheric scatter.

#### **2.40 Item 7a - Designation of Emission**

(All notice types)

##### **t\_bdwidth\_cde and t\_emi\_cls**

On electronic notifications the Designation of Emission is presented by two separate fields: **t\_bdwidth\_cde** (Necessary bandwidth) and **t\_emi\_cls** (Class of Emission).

On paper notices the Designation of Emission is presented as one field divided into two parts by a black line. The first four characters are reserved for the notification of the Necessary Bandwidth and the remaining five characters are reserved for the notification of the Class of Emission.

The Designation of Emission is mandatory for ADD and MODIFY actions. It shall not be notified in case of action SUPPRESS or WITHDRAW. Indicate the information in accordance with the method described in Appendix S1 to the Radio Regulations.

For electronic notices these fields shall be provided in the **NOTICE** section.

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<sup>4</sup> Outside the bands governed by Appendices S26 and S27.

#### **2.41 Item O-7a - Designation of Emission of the Target**

(All notice types)

##### **t\_trg\_bdwdth\_cde and t\_trg\_emi\_cls**

In combination with other parameters of the target, this field(s) shall be used to uniquely identify the assignment to be modified or suppressed, or the notice under treatment to be updated or withdrawn, if the Administration Unique Identifier of the target is not given. For an additional notice, this field shall not be notified.

The same rules as for item 7a - Designation of emission shall apply.

For electronic notices these fields shall be provided in the **NOTICE** section.

#### **2.42 Item 7b - Class of Operation**

(Notices T11 and T17)

##### **t\_op\_cls**

The Class of Operation is mandatory for ADD and MODIFY actions for frequency assignments to fixed stations operating in bands between 3 000 and 27 500 kHz (T11 and T17 notices). Indicate class of operation A, B or C as follows:

Symbol A assignment (notice) for regular operation use which is not provided by another satisfactory means of telecommunication;

Symbol B assignment (notice) for use as a standby to some other means of telecommunication;

Symbol C assignment (notice) for occasional use on a reserve basis.

It shall not be notified in case of action SUPPRESS or WITHDRAW.

For electronic notices this field shall be provided in the **NOTICE** section.

#### **2.43 Item O-7b - Class of Operation of the Target**

(Notices T11 and T17)

##### **t\_trg\_op\_cls**

In combination with other parameters of the target, this field shall be used to uniquely identify the assignment to be modified or suppressed, or the notice under treatment to be updated or withdrawn, if the Administration Unique Identifier of the target is not given. For an additional notice, this field shall not be notified.

The same rules as for item 7b - Class of operation shall apply.

For electronic notices this field shall be provided in the **NOTICE** section.

#### **2.44 Item 7e - Frequency deviation, in MHz (Notice T11)**

##### **t\_freq\_dev**

##### **Item 7f - Energy dispersal, in kHz (Notice T11)**

##### **t\_energy\_dsp**

##### **Item 8ab - Maximum power density, in dBW/Hz (Notice T11)**

##### **t\_pwr\_dens**

## **Item 9k - Receiving system noise temperature, in Kelvin (Notice T11)**

### **t\_noise\_temp**

This information is optional and may be furnished for stations in the fixed service when the parameters are used as a basis to effect coordination with another administration.

For electronic notices fields **t\_freq\_dev** and **t\_energy\_dsp** are provided in **NOTICE** section. Field **t\_pwr\_dens** is provided in the **ANTENNA** subsection. Field **t\_noise\_temp** is provided in the **RX\_STATION** sub-subsection.

## **2.45 Item 8 - Type of power**

(All notice types except T16)

### **t\_pwr\_xyz**

The type of power, as appropriate, corresponding to item 7a - Class of emission. The possible values are X (peak envelope power), Y (mean power) and Z (carrier power), describing the power of a radio transmitter as defined in RR S1.156 to RR S1.159. This information is mandatory for Notice Types T11, T12, T13, T14, T15 and T17 if item 8a - Power delivered to the antenna (dBW) is notified.

For electronic notices field **t\_pwr\_xyz** is provided in the **ANTENNA** subsection.

## **2.46 Item 8a - Power to Antenna (in dBW)**

(All notice types except T16)

### **t\_pwr\_ant**

Provide the value of the Power to Antenna in dBW indicating whether the value is positive or negative by means of the symbol + or -.

For Notice Type T17 indicate the nominal power at which the transmitter normally operates.

**2.46.1** The cases when the Power to Antenna is mandatory for ADD and MODIFY actions are described below.

- when the Assigned Frequency falls into a band shared between terrestrial and space services with equal rights and allocated to space services in the Earth-to-space direction or the emission overlaps into such a band (notice types T11 and T12);
- when the notified Class of Station is FD (aeronautical station in aeronautical mobile (R) service) or FG (aeronautical station in aeronautical mobile (OR) service) or SM (meteorological aids base station) (notice type T12);
- in all notifications in the bands below 28 MHz (excepting the notifications of AL, AM, NL, NR, RM and RN stations, where this field is not mandatory if the item 8b is notified);
- in all notifications on notice type T15.

**2.46.2** The Power to Antenna is also mandatory, for ADD and MODIFY actions, in cases not described in section **2.46.1** above, if the radiated power (item 8b) is not provided (notice types T11, T12, T13, T14, T17).

In all cases not covered by paragraphs **2.46.1 - 2.46.2** the Power to Antenna is optional.

It shall not be notified in case of action SUPPRESS or WITHDRAW.

For electronic notices field **t\_pwr\_ant** is provided in the **ANTENNA** subsection.

## **2.47 Item 8b - Type of Radiated Power**

(Notices T11, T12, T13, T14, T17)

### **t\_pwr\_eiv**

The type of radiated power in one of the forms described in Nos. RR S1.161 to RR S1.163. The possible values are E (e.r.p.), I (e.i.r.p.) and V (e.m.r.p). This information is mandatory for Notice Types T11, T12, T13, T14 and T17 if item 8b - Radiated power (dBW) is notified.

For electronic notices field **t\_pwr\_eiv** is provided in the **ANTENNA** subsection.

## **2.48 Item 8b - Radiated Power (in dBW)**

(Notices T11, T12, T13, T14, T17)

### **t\_pwr\_dbw**

Provide the value of the Radiated Power in dBW indicating whether the value is positive or negative by means of the symbol + or -.

**2.48.1** The cases when the Radiated Power is mandatory for ADD and MODIFY actions are described below:

- when the Assigned Frequency falls into a band shared between terrestrial and space services with equal rights or the emission overlaps into such a band (notice types T11 and T12); or
- when the Power to Antenna (item 8a) and the Maximum Antenna Gain are not provided (notice types T11, T12, T13, T14, T17).

In all cases not covered by paragraph **2.48.1** the Radiated Power is optional.

It shall not be notified in case of action SUPPRESS or WITHDRAW.

For electronic notices field **t\_pwr\_dbw** is provided in the **ANTENNA** subsection.

## **2.49 Item 8ba - Range of power control**

(Notice T17)

### **t\_pwr\_range**

For Notice Type T17 indicate the range of power control, in dB, above the nominal power indicated in item 8a. This information is optional.

For electronic notices field **t\_pwr\_range** is provided in the **ANTENNA** subsection.

## **2.50 Item 9 - Directivity of the Antenna**

(Notices T11, T12, T15 and T17)

### **t\_ant\_dir**

The Directivity of Antenna is mandatory for ADD and MODIFY actions and shall not be notified for actions SUPPRESS and WITHDRAW.

Indicate symbol D for a directional antenna or symbol ND for an omnidirectional one.

For electronic notices the field is provided in the **ANTENNA** subsection.

### **2.51 Item 9a - Azimuth of Maximum Radiation**

(Notices T11, T12, T15 and T17)

#### **t\_azm\_max\_e**

The Azimuth of Maximum Radiation is mandatory for ADD and MODIFY actions if the antenna is a directive one.

Indicate, in degrees, the azimuth of maximum radiation (clockwise from True North). For a rotating antenna indicate the central azimuth of the rotation sector.

If there is more than one maximum (e.g., for a Figure-8 antenna pattern), indicate only the most important azimuth.

For electronic notices the field is provided in the **ANTENNA** subsection.

### **2.52 Item 9ab - Azimuthal Sector for Rotating Antenna**

(Notices T11, T12, T15 and T17)

#### **t\_azm\_fr, t\_azm\_to**

This item shall be provided for ADD and MODIFY actions if a rotating antenna is used.

Indicate two azimuths in degrees (clockwise from True North) defining the sector in which the antenna rotates, from **t\_azm\_fr** to **t\_azm\_to**.

For electronic notices this field is provided in the **ROTATIONAL** sub-subsection of the **ANTENNA** subsection.

### **2.53 Item 9ab - Indicator of rotating antenna**

(Notices T11, T12, T15 and T17)

This item shall be provided for ADD and MODIFY actions if Azimuthal Sector for Rotating Antenna is furnished.

In paper notices put the letter "R" in the first field of item 9ab.

For electronic notices this field is derived from the existence, or lack of existence, of a **ROTATIONAL** sub-subsection of the **ANTENNA** subsection.

### **2.54 Item 9b - Elevation Angle**

(Notices T11 and T12)

#### **t\_elev**

The item is mandatory only for stations operating in frequency bands above 1 GHz shared with space services on an equal basis. Indicate the value of elevation angle of maximum directivity in degrees.

For electronic notices the field is provided in the **ANTENNA** subsection.



### **2.55 Item 9c - Beamwidth**

(Notices T11, T15 and T17)

#### **t\_bmwdth**

This item is required for ADD and MODIFY actions if antenna is directive.

Indicate, in degrees, the width of the main lobe of the antenna relating to 3 dB aperture.

For electronic notices the field is provided in **ANTENNA** subsection.

### **2.56 Item 9d - Polarization**

(Notice T11)

#### **t\_polar**

The item is mandatory for actions ADD and MODIFY only for stations operating in frequency bands above 1 GHz shared with space services on an equal basis. Indicate the polarization symbol as described in Table 9D1 of the Preface to the International Frequency List.

For electronic notices the field is provided in the **ANTENNA** subsection.

### **2.57 Item 9e - Height of Antenna**

(Notices T11 and T12)

#### **t\_hgt\_agl**

The item is mandatory for actions ADD and MODIFY only for stations operating in frequency bands above 1 GHz shared with space services on an equal basis. Indicate the height of the antenna above ground level in metres using symbols + or - whether the value is positive or negative. For high altitude platforms, in the fixed service, indicate the altitude of the platform. Negative values are only applicable to stations located in tunnels or to other underground installations.

For electronic notices the field is provided in the **ANTENNA** subsection.

### **2.58 Item 9ea - Altitude of Site Above Sea Level**

(Notices T11 and T12)

#### **t\_site\_alt**

The item is mandatory for actions ADD and MODIFY only for stations operating in frequency bands above 1 GHz shared with space services on an equal basis. Indicate the altitude of the site above sea level in metres using symbols + or - whether the value is positive or negative.

For electronic notices the field is provided in the **NOTICE** section.

### **2.59 Item 9g - Type of Antenna Gain**

(Notices T11, T12, T14, T15 and T17)

#### **t\_gain\_type**

Indicate the type of maximum antenna gain in one of the forms described in No. RR S1.160. The possible values are I (isotropic gain) in the frequency bands above 1 GHz shared by space and terrestrial radiocommunication services, V (gain relative to a short vertical antenna) in the bands

governed by the Regional Agreements GE85M and GE85N, and D (gain relative to a half-wave dipole) in cases other than those mentioned above. This information is mandatory for Notice Types T11, T12, T14, T15 and T17 if item 9g -Maximum antenna gain (dB) is notified.

For electronic notices the field is provided in the **ANTENNA** subsection.

## **2.60 Item 9g - Maximum Antenna Gain (in dB)**

(Notices T11, T12, T14, T15 and T17)

### **t\_gain\_max**

The item is mandatory for actions ADD and MODIFY if antenna is directional, including Rotational Antennas. Indicate, in dB, the gain of antenna in the direction of maximum radiation.

For electronic notices the field is provided in the **ANTENNA** subsection.

If all three values of the Maximum gain (item 9g), the Power to Antenna (item 8a) and the Radiated Power (item 8b) are furnished, the sum of the Maximum Gain and the Power to Antenna should be equal to the value of the Radiated Power.

## **2.61 Item 9j - Reference Antenna**

(Notices T11, T12 and T17)

### **t\_ant\_ref**

This information is optional and furnished when used as a basis to effect coordination with another administration. The information to be given in item 9j should be the exact reference of the antenna appearing in the CCIR Book "Antenna Diagrams" (CCIR/78 or CCIR/84). The symbols in standard references used for coordination such as ones contained in Table 9J1 to the Preface to the International Frequency List can be also utilized for this item.

For electronic notices the field is provided in the **ANTENNA** subsection.

## **2.62 Item 10b - Regular Hours of Operation**

(All notices)

### **t\_op\_hh\_fr, t\_op\_hh\_to**

The Regular Hours of Operation are mandatory for actions ADD and MODIFY and shall not be furnished for actions SUPPRESS and WITHDRAW.

For paper notices the format of Regular Hours of Operation is hhmm, for example 1420 meaning 14 hours 20 minutes in UTC.

For electronic notices Regular Hours of Operation must follow the ISO 8601 standard. That is, they must be in the format **hh:mm**, where:

**hh** is the number of complete hours which have passed since midnight (00 to 24).

**mm** is the number of complete minutes that have passed since the start of the hour (00 to 59).

As described in ISO 8601, 00:00 represents midnight at the beginning of the day and 24:00 represents midnight at the end of the day.

For electronic notices the field is provided in **NOTICE** section to specify operation from **t\_op\_hh\_fr** until **t\_op\_hh\_to**.

### **2.63 Item O-10b - Regular Hours of Operation of the Target**

(All notices)

#### **t\_trg\_op\_hh\_fr, t\_trg\_op\_hh\_to**

For actions MODIFY or SUPPRESS or WITHDRAW the Regular Hours of Operation of the Target are mandatory if the Administration Unique Identifier of the Target is not given. They are used as a parameter to uniquely identify the assignment to be modified or suppressed, or the notice to be updated or withdrawn. For action ADD this information shall not be provided.

The same rules as for item 10b - Regular hours of operation shall apply.

For electronic notices the field is provided in **NOTICE** section.

### **2.64 Item 10d - Estimated Peak Hours of Traffic**

(Notice T15)

#### **t\_peak\_hh\_fr, t\_peak\_hh\_to**

For Notice Type T15 indicate the estimated starting time and ending time for this set of peak hours of operation (UTC) in the format hh:mm. On the paper notice, there is a limitation on the total number of sets of peak hours to be notified on one sheet. If the total number exceeds that limit, the remaining information shall be supplied on a separate sheet and the box for other information shall be checked. However, on electronic notices, there is no limit concerning the total number of cases for one notice.

The same rules as for item 10b - Regular hours of operation shall apply.

For electronic notices the field is provided in **PEAK\_HOURS** subsection.

### **2.65 Item 10e - Estimated daily volume of traffic**

(Notice T15)

#### **t\_traffic**

For Notice Type T15 indicate the estimated traffic (minutes per day) for the channel. For paper notices, allowed values are 001 to 999, which correspond to the values normally expected for the coast stations.

For electronic notices the field is provided in the **NOTICE** section.

### **2.66 Item 11 - Coordination Provision**

(All notices)

#### **t\_coord\_prov**

The provision number for the coordination. This information is mandatory for Notice Type T15, and for Notice Types T11 or T12 for notices in the frequency bands shared with the space services. The possible values are APS25/1.4 for T15 and S9.16, S9.18 and S9.19 for Notice Types T11 and T12. In addition, administrations may coordinate the use of individual frequencies in accordance with the provisions of Article S6. This information is optional for Notice Types T11, T12, T13, T14, T16 and T17, the possible value is S6.7. For Notice Types T11, T12, T13, T14, T16 and T17, this information shall not be notified if item 11 - Coordinated with administrations is not notified.

For electronic notices the field is provided in the **COORDINATION** subsection.

## **2.67 Item 11 - Coordination with Other Administrations**

(All notices)

### **t\_adm**

Indicate the ITU three-character code of the administration with which coordination has been successfully achieved. This information is mandatory for Notice Type T15, and for Notice Types T11 or T12 for notices in the frequency bands shared with the space services. For Notice Types T11, T12, T13, T14, T16 and T17, this information shall not be notified if item 11 - Coordination provision is not notified. On the paper notice, there is a limitation on the total number of ITU three-character codes to be notified on one sheet. If the total number exceeds that limit, the remaining information shall be supplied on a separate sheet and the box for Other information shall be checked. However, for electronic notices, there is no limit concerning the total number of cases for one notice.

For electronic notices the field is provided in the **COORDINATION** subsection.

## **2.68 Item 12a - Operating Agency**

(All notices except T15 and T16)

### **t\_op\_agcy**

This item is optional for actions ADD and MODIFY and shall not be provided for actions SUPPRESS and WITHDRAW.

Indicate the name of the operating agency by means of the symbols given under the appropriate ITU three-character symbol in Table 12A/12B of the Preface to the International Frequency List.

There can be multiple symbols for the Operating Agency.

For electronic notices the field is provided in the **NOTICE** section.

## **2.69 Item 12b - Administration address code**

(All notices except T15 and T16)

### **t\_addr\_code**

This item is mandatory for actions ADD and MODIFY and shall not be provided for actions SUPPRESS and WITHDRAW.

Indicate the name and address of the responsible Administration by means of the symbols given under the appropriate ITU three-character symbol in Table 12A/12B of the Preface to the International Frequency List.

For electronic notices the field is provided in the **NOTICE** section.

## **2.70 Additional remarks**

### **t\_remarks**

This field is optional. It is not validated. Any information in this field will be entered in the database.

For electronic notices the field is provided in the **NOTICE** section.

## **2.71 Number of Notices**

(only for electronic notification)

### **t\_num\_notices**

The number of notices contained in the file. This information is mandatory. If the Bureau's count of the number of notices in the file differs from this value, the Bureau will presume that the file has been corrupted, and will notify the administration submitting the notices. Although this field only exists for electronic notification, it is recommended that the covering letter accompanying the paper notices indicate the number of notices, for the Bureau to verify that all notices have been received.

For electronic notices the field is provided in the **TAIL** section.

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