

**IMPLEMENTATION OF THE 2000 OPERATIONAL PLAN
(ACTIVITIES OF TERRESTRIAL SERVICES DEPARTMENT (TSD))**

3. Terrestrial Services

During the year 2000, the Bureau's activities in respect to terrestrial services were focused on the development and testing of the new software tools for processing of notices to terrestrial services (TerRaSys), bearing in mind that the former processing system (FMS) was phased out at the end of the year 1999, given the incompatibility of the ITU mainframe configuration (Siemens/IDMS CA) with the Year-2000 requirements. However, due to the delays in the delivery of some of the components of the new software, the Bureau was unable to follow the standard pace of processing and examination of frequency assignment notices to stations in some terrestrial services and some backlog is being gradually accumulated. As a remedial measure, the Bureau implemented some provisional arrangements (development of software for off-line data capture and for provisional publication of the notices "as received", etc.), which allow administrations to be kept informed on their and other administrations' submissions and which would also enable quicker elimination of the accumulated backlog once the relevant operational tools become available. It is to be noted that steady arrangements have been implemented in the areas where Bureau's involvement is essential (e.g., publication of special sections in the context of frequency coordination and plan modification procedures for BC/BT services in the VHF and UHF bands), especially in the areas with high volume of transactions, thus minimizing the impact of the incomplete BR software on administrations' rights.

3.1 Coordination requests pertaining to terrestrial services

Table 3-1 indicates the activities related to coordination requests (under S9.21) pertaining to terrestrial services. All requests were processed within the statutory time limits and the resources used were within the forecasts indicated in the Operational Plan (2 professional staff-months). This activity is being performed outside TerRaSys.

Table 3.1-1: Coordination requests

Procedure	S9.21
Expected input (OP-2000) ¹	100
Received notices during 2000	8
Examined notices in 2000	14

3.2 Plan modification procedures for terrestrial services

Tables 3.2-1 and 3.2-2 summarize the activities related to plan modification procedures pertaining to terrestrial services: In addition to the standard examination procedures, the Bureau undertook a review concerning the current status of various administrations in respect to the Regional Agreements that are governing the use of some of the frequency bands for different services in the respective planning areas. Appropriate multi-address letters were sent to the concerned administrations with a view to clarifying their status in respect to the concerned Regional Agreements and with a view to preparing appropriate Rules of procedure, if required. The following salient points need to be emphasized:

- The backlog related to examination of the notices governed by the VHF/UHF broadcasting agreements (and the publication of the relevant special sections) is being gradually eliminated, following the delivery of some of the software tools. However, some of the examination modules are still unavailable (e.g., updating of the reference situation in the bands governed by the GE84 Agreement), and this lack of essential modules prevents from publication of GE84 cases in Part A (initiation of the plan modification procedure); the backlog in this component dates back to March 1999.

¹ The expected input relates to the figures indicated in the Operational plan for the year 2000.

- Due to the lack of operational tools, no notice was either captured or examined in the bands governed by the GE75 and RJ81 Agreements. Alternative measures have been undertaken to allow for early treatment of the relevant notices outside TerRaSys, on a provisional basis. These measures will be implemented in the early 2001;
- No new notices were received, in 2000, in the bands governed by the Appendices S25 and S26 of the RR, nor in the bands governed by the GE85 Agreement. The BR applied the relevant steps of the procedures, for the active cases under AP S25 and GE85, within the statutory limits and there is no backlog in this regard as far as the BR examination is concerned. For GE85, 17 cases were completed outside TerRaSys.
- The resources used were somewhat higher (50 professional and 40 general service staff-months) than the forecasts indicated in the Operational Plan (35 professional and 20 general service staff-months), mainly due to increased involvement in testing of the software tools.

Table 3.2-1: Submissions under plan modification procedures (BC/BT services)

Procedure	ST61	GE75	RJ81	GE84	GE89
Expected input	2000	80	60	2000	200
Received Notices	1791	136	18	3033	255
Capture and Validation					
Captured notices	1791	0	0	3033	255
Performance indicator for data capture	Satisfactory	Un-satisfactory	Un-satisfactory	Satisfactory	Satisfactory
Backlog (weeks)	0	60	48	0	0
Publication					
Published notices (Part A)	139	0	0	0	263
Notices awaiting publication in Part A	452 (48 weeks)	67	38	2121 (101 weeks)	20 (3 weeks)
Published notices (Part B)	636	0	0	2460	57
Notices awaiting publication in Part B	944 (48 weeks)	29 (60 weeks)	14 (48 weeks)	484 (78 weeks)	27 (3 weeks)

Table 3.2-2: Plan modification procedures (other than BC/BT)

Procedure	AP S25	AP S26	GE85
Expected input	20	10	40
Received Notices	0	0	0
Examination			
Treated cases (including previous periods)	5 {out of 5}	-	20 {out of 20}
Performance indicator for examination	Satisfactory	N/A	Satisfactory
Backlog (weeks)	0	-	0
Remaining active cases	5	0	3
Earliest date of receipt	15.05.1998		22.04.1998

3.3 Notification, examination, recording and other procedures pertaining to terrestrial services

3.3.1 Article S11

Table 3.3-1 summarizes the activities related to notification and other regulatory procedures pertaining to terrestrial services: The following salient points need to be emphasized:

- There is no backlog in the data capture of notices pertaining to VHF/UHF broadcasting. Notices pertaining to LF/MF broadcasting are not captured yet due to lack of operational tools; alternative measures have been undertaken in this respect and they will be implemented in early 2001. As far as the notices pertaining to fixed and mobile services are concerned, and pending the development of operational tools, alternative measures have been implemented in March 2000 (off-line capture, provisional publication in BRIFIC as a preliminary acknowledgement of receipt), which will facilitate the smooth elimination of the backlog once the operational tools are implemented.
- There is a slight backlog in the examination of notices pertaining to VHF/UHF broadcasting (2364 notices with the earliest date of receipt 28 July 1999), which is expected to be eliminated in the early 2001. Notices pertaining to LF/MF broadcasting are not examined yet due to lack of operational tools; alternative measures have been undertaken in this respect and they will be implemented in early 2001. Similarly, notices pertaining to fixed and mobile services are not examined yet due to lack of operational tools and pending the completion of the conversion of the MIFR data from FMS to TerRaSys format (at the end of December 2000, there were some 68 000 notices to stations in the fixed and mobile service that were awaiting for standard processing and examination with the earliest date of receipt of 4 January 1999).
- The resources used were somewhat lower (70 professional and 90 general service staff-months) than the forecasts indicated in the Operational Plan (90 professional and 120 general service staff-months).

Procedure	Art. S11	Art. S12	Res. 300	Rec. 402
Expected input	50 000	20 000	50	30
Received Notices	61 062	21 662	0	0
Capture and Validation				
Captured notices	38 702	21 662	N/A	N/A
Performance indicator for data capture	Satisfactory	Satisfactory	N/A	N/A
Backlog (weeks)	4	0	0	0
Examination				
Examined notices	915	65 369	N/A	N/A
Performance indicator for examination	Unsatisfactory	Satisfactory	N/A	N/A
Backlog (weeks)	105 (92)	0	0	0

3.3.2 Article S12

As indicated in Table 3.3-1, the number of submissions under Article S12 (BC notices in the HF bands) was within the forecasts indicated in the Operational Plan. The treatment of these notices has followed the standard pattern (all valid notices received up to 2 weeks before each publication could be incorporated in the database and subjected to the appropriate technical examination). The mandatory notification in electronic format allows for capture and treatment of a large number of assignments. Eleven CD-ROMs have been published in the year 2000, which contain, inter alia, HFBC schedules, results of compatibility analysis and latest version of HFBC software. As the compatibility analysis is repeated with every new publication, the number of examinations is higher than the number of received notices. This activity also comprises exchange of correspondence with administrations and regional coordination groups concerning possible improvements to software, correction of reference tables and presentation of calculation results, and maintenance of web pages with latest software updates. In the associated activities, staff of the Bureau participated in the relevant coordination meetings (HFCC, Dubrovnik, February 2000; Joint HFCC/ASBU/ABU-HF coordination meeting in Kuala Lumpur, August 2000) where it presented the relevant software, as well as the associated procedures for broadcasting services (see also Section 10.4).

Performance indicator: satisfactory. All activities completed in accordance with the schedule indicated in Article S12. The resources used were somewhat lower (25 professional and 5 general

staff-months) than the forecasts indicated in the Operational Plan (30 professional and 10 general staff months).

3.3.3 Other regulatory procedures and treatment of monitoring reports

3.3.3.1 As indicated in Table 3.3-1, there was no specific activity in response to Resolution 300 and Recommendation 402. It is to be noted that the specific procedures of Resolution 300 for NBDP notices in the HF bands have been revised by WRC-2000 and these notices are now subject to the standard procedure of Article S11 as of 3 June 2000. Similarly, there were no specific requests for application of the procedure of Recommendation 402; however, as no examination is being performed yet in respect to notices pertaining to fixed and mobile services, the need for the application of the procedure of Recommendation 402 may be identified at a latter stage.

3.3.3.2 In the year 2000, monitoring reports containing 46765 observations were received from 15 administrations, which were submitted either in paper or in electronic formats. Submissions in paper format, which represent approximately 40% of the total number of observations received; were captured and appropriately formatted with a view to posting them on the ITU Web site together with the information received in electronic format. The information is available in dBase and Zip format for internal and external download at <http://www.itu.int/brtpr/monitoring/index.html>.

3.3.3.3 In response to the decisions of WRC-2000, the Bureau also initiated special monitoring programmes in the HF bands allocated to, or adjacent to, the bands allocated to the broadcasting, maritime mobile and aeronautical mobile (R) service. In response to this programme, whose first phase was conducted in the period 13 November – 3 December 2000, the Bureau received the first batch of 649 observations from one administration. The information was processed and made available for external and internal download at the ITU Web site.

Performance indicator: satisfactory. The observation reports are processed and posted on the Web without delay. The resources used were within the forecasts envisaged by the Operational plan (one professional and two general staff-months were used for these activities).

3.4 Application of administrative and operational procedures

In the year 2000, the Bureau handled 14 requests dealing with allocation of series of call signs, blocks of selective call numbers and Maritime Identification Digits, in accordance with Article S19, Resolution 13(Rev.WRC-97), as well as ITU-R and ITU-T Recommendations. In this respect, the following means of identification were allocated to administrations: **one** call sign series, **one** block of coast station identification numbers, **one** block of selective call numbers for predetermined group of ship stations and **five** MIDs. It is to be noted that all the blocks of ship station selective call numbers (SSSCN) were exhausted in the first quarter of 1999 and the administrations were informed accordingly through the ITU Operational Bulletin (No. 693 of 1 June 1999). Administrations submitting requests for additional blocks of SSSCN are advised to re-use the same five-digit ship station selective call numbers for both SFSC and NBDP (where applicable), or to migrate to the numerical identification system based on MID and the proposed course of action is generally accepted.

Assistance and clarifications concerning administrative provisions of the RR were given to several administrations, as well as to a number of entities outside the administrations (operating agencies, private companies and general public). Necessary liaison with IMO, Inmarsat / IMSO, ICAO, and the UN was provided with regard to the application of the ITU treaty texts within these organizations. A total of 290 communications was exchanged.

The ITU Master List for means of identification has been maintained and updated using the new Global Administration Database (GLAD).

Performance indicator: Satisfactory. All requests were treated in time. Administrations generally follow the guidance suggested by BR. The staff resources used were within the forecasts indicated in the Operational Plan (3 professional and 8 general service staff-months).

3.5 Implementation of Conference Resolutions dealing with terrestrial matters

3.5.1 In the frame of the preparation for WRC-2000, the Bureau reviewed all the relevant aspects concerning the application of regulatory and operational procedures from previous Conferences and prepared appropriate reports to WRC-2000. After WRC-2000, the Bureau evaluated the implications of the Conference decisions and appropriate follow-up activities were initiated in this regard (modification of the Rules of procedure, changes to the validation rules, preparation of algorithms for mass-updates, etc.). Other aspects concerning the application of the decisions from previous conferences are under permanent review. The following activities were undertaken in this respect:

- In accordance with Resolution 30 (WRC-97), the Bureau commenced with regular publication, on a bi-weekly basis, of the BRIFIC on CD-ROM, as the sole regulatory publication resulting from the application of the Radio Regulations and the Regional Agreements (see also paragraph 8.1.1 hereafter).
- In response to Resolution 340, and after the additional consultation with administrations, the format for notification of ship stations was finalized. The additional search and rescue information has been incorporated in MARS and appropriate arrangements were established as to the access to these additional data from authorized users. Administrations were informed accordingly through Circular-letter CM/10.
- Resolution 535: With respect to HFBC propagation software development, new version (HFBC 3) was released in January 2000. The HFBC web page is continuously updated with updated reference tables and on-line help files. Improvement of the software is still on-going.

Performance indicator: Satisfactory (all relevant activities initiated in time; no complaint received from a Member State).

3.6 TSD activities in software development for processing of terrestrial notifications

The software development is being performed by the IAP Department of the BR, while the TSD staff is involved in formulating the user requirements and in testing the delivered components. In 2000, considerable efforts were put on the development and testing of various components of the new TerRaSys, bearing in mind that, after the cessation of FMS/PMS on Siemens at the end of 1999, the BR remained with no operational tool for treating the submissions from administrations. The major activities of TSD staff in this regard are listed below:

- Intensive Beta testing of the results of data conversion from FMS structure to TerRaSys structure and adaptation of conversion rules to resolve identified problems;
- Identification incoherent records from the FMS database and analysis of possible options to resolve cases of incoherent data;
- Development and completion of Validation Rules for notice validation of all non-broadcasting services;
- Maintenance of the submission guidelines for non-broadcasting notices made available to administrations on the ITU Web site;
- Beta testing of all components made available (TerRaQ, TerRaNV) and identification of possible improvements;
- Beta testing of the Eu calculations for GE84;
- Ongoing support in fixing bugs and in system development.

7 Radiocommunication Bureau Seminars and Conference preparation

7.1 Seminars

Staff of TSD participated in the BR Seminar in Geneva (November, 2000), the BR Regional Seminar in Islamabad (Pakistan, April 2000), in the ASBU Seminar in Damascus (Syria, July 2000), the BDT Seminars in Nairobi (November 2000) and Dakar (November 2000), as well as in the WRC-2000 preparatory meeting for African countries (Abidjan, 28 February – 3 March 2000).

Performance indicator: satisfactory (all activities completed in time; satisfaction has been expressed by Member States). The staff resources used were within the forecasts indicated in the Operational Plan.

7.2 Preparation for and participation at RA-2000 and WRC-2000

Staff of the Department participated in the preparatory activities for WRC-2000, which included preparation of several reports. Several staff members participated at RA-2000 (Istanbul, 1 – 5 May 2000) and WRC-2000 (Istanbul, 8 May – 2 June 2000) as part of the Conference Secretariat, as well as in the immediate post-conference activities (preparation of the Final Acts).

After WRC-2000, staff of TSD evaluated the implications of the Conference decisions to the TSD activities and appropriate follow-up activities were initiated in this regard (modification of the Rules of procedure, changes to the validation rules, preparation of algorithms for mass-updates, etc.).

8 Development of BR publications

8.1 Regulatory publications (including publication of service documents)

8.1.1 In 2000, the preparation of the regulatory publications was determined by the change of the database systems, bearing in mind the replacement of the Siemens IDMS database with Ingres. Despite some difficulties (problems related to the ever-developing software, frequent failures of the relevant software modules and the network itself), the production followed the standard pattern, as foreseen in the Operational Plan.

8.1.2 With regard to the basic regulatory publication, the “BR International Frequency Information Circular” (BRIFIC on the CD-ROM), which represents a consolidated regulatory publication in pursuance to the Radio Regulations and various Regional Agreements, twenty-five regular issues were published in 2000 on a bi-weekly basis (starting with No. 2410 dated 10 January 2000). It is to be noted that, as far as terrestrial services are concerned, each IFIC contains the complete and the permanently updated IFL, the updated versions of the terrestrial frequency assignment plans, as well as details on the transactions in progress. It also contains the permanently updated Preface, as well as software for validation of notices to terrestrial services. However, the data concerning FXM notices was included only for testing purposes, pending the approval of the conversion from FMS into TerRaSys format. In further developments, BR also established a Web site which contains extracts from the CD-ROM, comprising only the incremental changes in the last edition of BRIFIC compared with the previous one.

8.1.3 With regard to service documents, whose production was also transferred from the IDMS-based mainframe computer to a client-server configuration, the publication followed the dynamics indicated in the Operational Plan, notably

- List IV (Coast stations): one full edition (17th) and one supplement, 1040 pages
- List V (Ship stations): one full edition (40th) and three supplements: 4459 pages;
- List VI (Radiodetermination and special service stations): one full edition (14th) and one supplement: 1062 pages;
- List VIIA (Call signs and numerical identities used by the maritime service): four supplements: 1261 pages;
- List VIIB (Other call signs): one supplement: 24 pages.

8.1.4 In addition to the standard treatment of notifications from administrations related to the above publications, activities were also undertaken on the publication of the relevant information in the ITU

Operational Bulletin. The Bureau also continued to maintain and to update, on a regular basis, the accessible ship-station database (MARS). As requested by Resolution 340 (WRC-97), additional search and rescue information has been incorporated in MARS and appropriate arrangements were established as to the access to these additional data from authorized users. Administrations were informed accordingly through Circular-letter CM/10.

Performance indicator: Satisfactory (all activities completed in time; no complaint received from users). The staff resources used (23 professional and 90 general service staff-months) were somewhat higher than the forecasts indicated in the Operational Plan (13 professional and 60 general service staff-months), due to the increased involvement in the activities related to the publication of the BR IFIC.

9 Assistance to Members

In 2000, the Bureau continued to provide various kinds of assistance to administrations, as listed in paragraphs 9.1 to 9.4 below.

Performance indicator: partially satisfactory (some requests could not be completed in a reasonable timeframe, due to heavy workload on testing of different parts of TerRaSys, as well as due to unavailability of some software tools under TerRaSys; however, no complaint has been received from administrations). The staff resources used were within the forecasts indicated in the Operational Plan.

9.1 Specific assistance to administrations of developing countries

The Bureau organized one Regional Seminar in Islamabad (Pakistan, April 2000), one preparatory meeting for WRC-2000 (Abidjan, February/March 2000), as well as the regular biennial Seminar in Geneva (November 2000). Participants from developing countries were granted fellowships for these Seminars, at which a wide range of issues was presented, including issues related to national spectrum management. Appropriate software modules were distributed to support the activities of national spectrum management units within these administrations. In addition, specific missions were undertaken, either on request of the administrations concerned (e.g., participation in the ASBU Seminar in Damascus, Syria, July 2000) or on request of BDT (participation in BDT Seminars in Nairobi (November 2000) and Dakar (November 2000)).

9.2 Special monitoring and treatment of cases of harmful interference cases

In 2000, the Bureau continued with the special monitoring program referred to in Resolution 205. Some 35 reports were received in this regard concerning 55 unauthorized emissions. As a result of the Bureau's actions, 20 unauthorized emissions have ceased.

In addition, the Bureau dealt with 126 cases of harmful interference in 2000, 92 of them being new cases, and with 17 cases of special assistance to administrations. During 2000, 44 cases have been closed.

9.3 Special assistance on coordination, notification and plan modification procedures

In 2000, the Bureau provided assistance to administrations in relation to the application of various regulatory procedures. Detailed calculation results and test calculations in the framework of the regional agreements GE75, GE84 and GE89 absorbed some four person-months, while the assistance in the framework of Article S12 (HFBC) absorbed eight person-days.

9.4 Assistance to non-Sector Members

Assistance and clarifications concerning regulatory and administrative provisions of the RR were given to a number of entities outside the administrations (operating agencies, private companies and general public).

10 Cooperation

10.1 Cooperation with ITU-D

Staff of the Bureau participated in several activities organized by the BDT, including participation in missions on request of BDT in order to assist administrations in various issues related to spectrum management (see also paragraph 9.1 above).

10.4 Cooperation with International and Regional Organizations

The Bureau maintained liaison and cooperation with many International and Regional Organizations, particularly with a view to ensuring effective preparation for WRC-2000 (CEPT, CITELE, APT, etc). Staff of the Bureau participated at the 5th COMSAR meeting of the IMO (London, December 2000) as well as in the 14th Cospas-Sarsat Joint committee (London, June 2000).

Staff of Bureau participated in several meetings concerning the coordination of the HFBC schedules organized by the regional coordination groups (HFCC, ASBU, ABU) and presented the relevant software, as well as the associated procedures for broadcasting services.



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Summaries of Monitoring Information submitted by Administrations

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[Forms of Notice
\(Terrestrial
Services\)](#)

[\(Former\) Weekly
Information Circular](#)

[Summaries of
Monitoring
Information](#)

[MARS](#)

This publication contains spectrum monitoring information submitted by administrations in accordance with [IFRB Circular-letter No. 646](#) of 5 February 1986.

This is a new publication that replaces the previous publication on microfiches. It is divided in- several data files each of which contains observations corresponding to the following periods:

SUMMARY (ZIP DBF format)	Monitoring Period	Date of last update
288	01.10.00 - 31.12.00	18.12.2000
287	01.07.00 - 30.09.00	30.11.2000
286	01.04.00 - 30.06.00	04.09.2000
285	01.01.00 - 31.03.00	24.08.2000
284	01.10.99 - 31.12.99	24.08.2000
283	01.07.99 - 30.09.99	24.08.2000
282	01.04.99 - 30.06.99	19.01.2000
281	01.01.99 - 31.03.99	14.01.2000
280	01.10.98 - 31.12.98	08.09.1999
279	01.07.98 - 30.09.98	08.09.1999
278	01.04.98 - 30.06.98	25.01.1999
277	01.01.98 - 31.03.98	25.01.1999
276	01.10.97 - 31.12.97	25.01.1999
275	01.07.97 - 30.09.97	25.01.1999
274	01.04.97 - 30.06.97	25.01.1999
273	01.01.97 - 31.03.97	25.01.1999

- [Structure of Monitoring Database](#)

If you have questions or suggestions, please contact:

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