

IMPLEMENTATION OF THE 2007 OPERATIONAL PLAN (ACTIVITIES OF TERRESTRIAL SERVICES DEPARTMENT (TSD))

Executive summary

During the year 2007, TSD activities were focused on two main groups:

- Carrying out activities related to WRC-07: this included a number of preparatory activities including preparation of statutory and other reports to WRC-07 and participation in the regional preparatory meetings, active participation in WRC-07 which also included the provision of secretarial support, and the implementation of the immediate post-conference activities resulting from the decisions of WRC-07.
- Treatment of submissions from administrations, mainly frequency assignment notices to stations in various terrestrial radiocommunication services, under the relevant provisions of Articles 9, 11, 12 and 20 of the Radio Regulations (RR), as well as under the relevant provisions of various Regional Agreements, with a particular emphasis on the implementation arrangements regarding the GE06 Agreement.

The main objectives in this respect (timely initiation and execution of the relevant activities; processing and examination of the administrations' notices and other submissions within the statutory limits) were generally achieved, despite the extremely high workload. The relevant information resulting from these activities was published according to the standard arrangements:

- on a two-weekly basis, through the International Frequency Information Circular (IFIC), for submissions under Article 9 of the RR, under various Plan modification procedures, and under Article 11 of the RR; the content and the publication format of the BR IFIC was gradually enhanced to include the updates resulting from the gradual implementation of the GE06 Agreement;
- on a monthly basis, through regular CD publications, for submission under Article 12 of the RR;
- in accordance with pre-established schedules, as indicated in the relevant publication notices, for submissions relevant to the publication of various service documents listed in Article 20 of the RR.

At the same time, TSD continued to meet the increasing demand for assistance from administrations, international organizations, private companies and other entities in the application of regulatory, administrative and operational procedures including detailed calculation results and test calculations. Reports of harmful interference were accorded the highest priority, as were reports of unauthorized emissions in frequency bands reserved for safety services.

TSD also applied the relevant administrative and operational procedures, and the outcome of these procedures (e.g. provision of appropriate means of identification) has been disseminated accordingly (e.g. through the Operational Bulletin).

In addition, TSD continued to maintain several databases (such as the electronic version of the IFL, several worldwide and regional plans, the ship and coast stations databases), which represent reference tools for numerous applications. The uninterrupted on-line availability of the ship stations database, to the registered users, through the Internet, was highly appreciated by the search and rescue authorities as an indispensable tool for their everyday activities.

2.1.1 Activities related to WRC^{1,2}

2.1.1.0 These activities could be subdivided into three main groups: (1) preparatory activities that preceded the WRC-07, (2) activities during WRC-07 and (3) post-conference activities after WRC-07. The activities related to each main group are summarized hereunder.

2.1.1.1 In the context of the preparatory work for WRC-07, staff of the Department undertook the following activities for WRC-07:

- continuing review of the agenda items that are relevant for the TSD activities and appropriate follow-up insofar as BR actions are concerned (e.g., review of the bands that are subject to Resolutions 21 (Rev.WRC-03) and 525 (Rev.WRC-03) and consequential follow-up actions);
- preparation of the relevant inputs to the Director's report to WRC-07: the Department contributed to the preparation of Addenda Nos. 1, 2, 3, 4, 5, 6 and 8 to Document CMR07/4. Initial drafts of these statutory reports (or parts thereof) and other special reports were also submitted to some other relevant bodies (RRB, RAG, CPM, etc.);
- participation in the relevant meetings of the international organizations (e.g., APT/APG, ATU, CEPT/CPG, CEPT/PT1, CEPT/PT4, CEPT/PT9, CEPT/WGFM, CITEL PCC II, IMO/COMSAR11) as well as in the relevant ITU-R Study Group activities (CPM07, WP 1B, WP 8B). This also included preparation of contributions to some of these meetings (e.g., the form, content and periodicity of the service publications referred to in Article 20 of the Radio Regulations, bearing in mind the carriage requirements referred to in Appendix 16 to the Radio Regulations and their relevance for agenda item 1.14 of WRC-07; observations regarding the submission and registering of MMSI for equipment other than shipborne mobile equipment, observations regarding the issues indicated in Resolution 951 (WRC-03), considerations regarding the possible update of Appendix 4 with the data elements decided by RRC-06, etc);
- participation in various ITU meetings dealing with the ITU preparations for WRC-07;
- review of some of the Member States' submissions to WRC-07 with a view to ensuring coherence of the concerned proposals with the instruments in force;
- preparatory secretarial work by the staff envisaged to undertake secretarial functions at WRC-07.

2.1.1.2 Staff of the Department provided secretarial and technical support to WRC-07, notably to Committees 4 and 7, to Working Groups 4B and 4C and to various sub-working groups and drafting groups. Several staff of the Department actively participated in almost all the conference bodies.

2.1.1.3 After the WRC-07, staff of the Department analysed the results of the conference and commenced with the required follow-up actions immediately after the end of the conference, given the fact that some of WRC-07 decisions apply provisionally as from 17 November 2007. These activities included the following:

- Review of the provisional version of the Final Acts of WRC-07 with a view to detecting any possible errors and omissions;
- Participation in the activities related to the preparation of the definitive Final Acts of WRC-07 (this activity included preparation of proposals for definitive numbering on the provisional numbers of the relevant provisions of the RR and of the newly adopted Resolutions and Recommendations);

¹ The numbering of the Sections in this report follows the numbering scheme of the ITU-R Operational Plan for the period 2007 – 2011.

² Sections 2.1.1 to 2.1.5 are part of **Objective 1** (*Promote coordination and collaboration among members*)

- Initiation of the updates to the validation rules and the associated TerRaSys software with a view to amending the arrangements for processing and examination of the relevant submissions from administrations in accordance with the modified provisions that entered into force on 17 November 2007;
- Review of the current Rules of Procedure with a view to reflecting the relevant WRC-07 decisions that may require suppression or modification of the current Rules of Procedure;
- Review of the WRC-07 decisions with a view to establishing a list of provisions which may require establishment of a new Rule of Procedure, with an emphasis on the provisions that entered into force on 17 November 2007.

Performance indicator (for TSD): Satisfactory (all activities initiated and executed in a timely manner to the satisfaction of the membership). The staff resources used were within the forecasts indicated in the Operational Plan.

2.1.2 Activities related to the Radiocommunication Assembly, 2007

2.1.2.1 Staff of the Department provided a limited secretarial support to RA-07 (i.e., to the Editorial Committee) and participated in the proceedings of the RA-07 to the extent possible, on the issues relevant for TSD activities.

Performance indicator (for TSD): Satisfactory. Participation in the Secretariat of the Assembly responded to the formulated requirements. This participation was limited to the activities relevant to TSD. The staff resources used were within the forecasts indicated in the Operational Plan.

2.1.3 Activities related to the RRC-06

2.1.3.1 Staff of the Department continued with the implementation of the decisions of RRC-06, RRC-06-Rev.ST61 and RRC-06-Rev.GE89, which entered into force on 17 June 2007. In this context, the following activities were carried out:

- a) development of some specific validation rules, their inclusion in a consolidated document "Guidelines for GE06 submissions", posting of the consolidated document on the web, preparation and dispatch of the related informational document to the membership (CR/270);
- b) preparation of Rules of Procedure (CCRR/31, CCRR/32) and their implementation after their approval by the RRB;
- c) continuing software development for the application of the procedures established by the RRC-06 (this comprised software packages for the standalone system and software packages provided to the TerRaSys development team for integration within TerRaSys), notably:
 - development of several web tools (e.g., tool for viewing the Special Sections related to GE06 Agreement, including the information on coordination examination as well as graphical presentation of results (this tool was also made available on the external web for the use of administrations), tool for viewing and updating coordination information, etc.);
 - a software module for performing the coordination examination for analogue BT assignments (this package was subsequently integrated within TerRaSys as a web service);
 - a software module for performing the conformity examination for analogue BT assignments as per Art. 5.1.2.a (this package was subsequently integrated within TerRaSys as a web service);
 - a software module for processing of assignments stemming from allotments;
 - a software module for examination of minor/major modifications as stipulated in § 4.1.2.4 of the Agreement;

- a software module for performing the coordination examination for modification to the List of other primary services (subsequently integrated within TerRaSys as a web service);
 - a tool for importing the database of newly submitted digital notices in the standalone system, enabling the application of specific provisions agreed at RRC-06;
 - development of GE06 Interface and its inclusion in the BR IFIC: this tool enables administrations to consult the assignments/allotments associated with the GE06 Agreement;
 - development of GE06 PUB and its inclusion in the conformity check module: this tool enables editing of different documents such as the weekly meeting documents, pdf document for the web and the export of data to the BR IFIC DVD in respect of GE06 publications including Articles 4 and 5 of the GE06 Agreement;
 - development of a tool to compare the structure and contents of SQL Server, Ingres and Microsoft Access databases in the context of the GE06 standalone processing system;
 - development of a tool to prepare the Access database with Article 5 digital BC/BT notices published in Part I that are included in the BR IFIC DVD (pending the integration of the standalone system and TerRaSys);
- d) review of the findings of the MIFR assignments to BC/BT stations in the bands governed by the GE06 Agreement with a view to establishing a proper relationship with the Plans established by the RRC-06 and the related criteria; dispatch of explanatory letters to administrations;
- e) consequential update to the Preface to the BR IFIC, to reflect the developments related to the processing of notices in the bands governed by the GE06 Agreement;
- f) participation in the testing of the TerRaSys modules dealing with some types of GE06 submissions including the validation tool TerRaNV for G11 – G14 notices, as well as testing of TerRaPub.

Performance indicator (for TSD): Satisfactory (all activities initiated and executed in a timely manner to the satisfaction of the membership). The staff resources used were within the forecasts indicated in the Operational Plan.

2.1.4 RAG-related activities

2.1.4.1 Staff of the Department were involved in the preparation of documents for the 14th RAG meeting (January 2007), and participated in the work of the 14th RAG meeting and in the follow-up activities resulting from this meeting.

2.1.4.2 Staff of the Department participated in the preparatory activities regarding the 15th RAG meeting, 13-15 February 2008, such as review of the Director's report to RAG, preparation of the Operational Plan for the period 2009-2012, preparation of the performance report for 2007, etc.

Performance indicator: Satisfactory (timely initiation of the required activities and timely input to the statutory documents). The staff resources used were within the forecasts indicated in the Operational Plan.

2.1.5 RRB-related activities

2.1.5.1 Staff of the Department prepared the required input for the Director's reports to the 43rd, 44th and 45th RRB meetings, including the special reports dealing with specific cases of harmful interference and related case studies, and implemented the relevant follow-up actions.

2.1.5.2 Staff of the Department prepared proposals for new Rules of Procedure dealing with the GE06 Agreement (CCRR/31, CCRR/32).

2.1.5.3 Staff of the Department participated in the ongoing review of the existing Rules of Procedure with a view to their possible incorporation into provisions of the Radio Regulations; the results of this examination were submitted to WRC-07 for consideration.

2.1.5.4 Staff of the Department commenced with the review of the current Rules of Procedure with a view to reflecting the relevant WRC-07 decisions that may require suppression or modification of the current Rules of Procedure. Staff of the Department also commenced with the review of the WRC-07 decisions with a view to establishing a list of provisions which may require the establishment of a new Rule of Procedure, with an emphasis on the provisions that entered into force on 17 November 2007.

Performance indicator: Satisfactory (the statutory activities were initiated on time and completed according to established schedules). The staff resources used were within the forecasts indicated in the Operational Plan.

2.2.2 Treatment of notices and other submissions related to terrestrial services³

I) General observations

I.1 Staff of the Department continued to process notices pertaining to terrestrial services under various arrangements:

- Using those TerRaSys tools that have been brought into production;
- Using local data management systems and similar equivalents outside TerRaSys (such arrangements are used in the context of the AP26, GE75, RJ81 and GE06D Plans; in the context of some Article 11 submissions (BC notices in the LF/MF bands, GE06D notices in the GE06 bands), as well as in the context of the HF Broadcasting under Article 12 of the RR – see also paragraph 2.2.2.a3);
- Using semi-automated or manual procedures (such an arrangement is used in the context of the Article 9 submissions, for some type of examinations under AP25, and GE85-MM-R1 Plans and for some types of examinations of submissions under Article 11).

I.2 Staff of the Department participated in the extensive testing of the following software modules (developed under TerRaSys during 2007):

- Testing of two versions of the software dealing with the examination of Article 11 notices (terrestrial services) in the band governed by AP30: the version dealing with the criteria applicable until 1 January 2004 was verified (through several iterations) and put into production in May 2007; the version dealing with the criteria applicable after 1 January 2004 was verified (through several iterations) and put into production in September 2007;
- Testing of the software module dealing with the examination of Article 11 notices in the bands governed by the GE85N Agreement; the relevant enhancements were put in production in September 2007.

I.3 Staff of the Department undertook a study of the WRC-07 decisions which entered into force on 17 November 2007 with a view to initiating the required modifications to the validation and examination software.

³ Section 2.2.2 pertains to **Objective 2** (*Meet requirements relating to spectrum and orbit access*)

I.4 At the time of preparation of this report, the Department was still without any operational tool (either standard or provisional) for automated treatment of notices in the following areas:

- Processing and examinations of new submissions related to the Plan modification procedures, which necessitate assessment of the compatibility, in the context of the following Plans: AP25 and GE85-MM-R1;
- Examination of the FXM notices governed by Article 11 of the RR (in the bands governed by the RJ88 Agreement).

2.2.2.a1: Processing of coordination requests pertaining to terrestrial radiocommunication services

Table 2.2.2.a1-1 indicates the activities related to coordination requests (under 9.21) pertaining to terrestrial services. This activity is being performed in a manual or semi-automated manner, outside TerRaSys.

Table 2.2.2.a1-1: Treatment of coordination requests (under 9.21)

Expected input	100
Received notices	11
Examined notices (including previous periods)	83
Remaining number of active cases	353
Performance indicator for examination	Satisfactory
Backlog (weeks)	0

2.2.2.a2 Application of Plan modification procedures to submissions pertaining to terrestrial radiocommunication services

Tables 2.2.2.a2-1 and 2.2.2.a2-2 summarize the activities related to Plan modification procedures pertaining to terrestrial services.

Table 2.2.2.a2-1: Submissions under Plan modification procedures (BC/BT services)⁴

Procedure	ST61	GE75	RJ81	GE84	GE89	GE06
Expected input	40	80	60	2 000	40	1 500
Received notices	20	231	5	10 388	0	3 240
Capture and Validation						
Captured notices	20	231	5	10 388	0	3 240
Performance indicator for data capture	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Backlog (weeks)	0	0	0	0	0	0
Examination and publication						
Published notices (Part A)	3	297	4	2 485	0	1 106
Notices awaiting publication in Part A	0	7 (6 weeks)	0	4 761 (11 weeks)	0	914 (12 weeks)
Published notices (Part B+C)	131	168	13	2 933	0	607
Notices awaiting publication in Part B or C	0	1 (3 weeks)	0	0	0	0
Performance indicator for examination and publication	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory

Performance indicator: The objectives set forth in the Operational Plan (timely processing within the statutory limits) have been achieved by using two different arrangements: under TerRaSys in the context of the VHF/UHF Plans (ST61, GE84, GE89 and GE06A), and outside TerRaSys in the context of the LF/MF Plans (GE75 and RJ81) and the GE06 Plan (digital broadcasting). The resources used were proportional to the forecasts indicated in the Operational Plan.

⁴ Submissions under ST61, GE84 and GE89 Agreements are treated under TerRaSys; submissions under GE75, RJ81 and GE06D are treated outside TerRaSys (using local database systems).

Table 2.2.2.a2-2: Plan modification procedures (other than BC/BT)

Procedure	AP 25	AP 26	GE85	GE06L
Expected input	20	10	40	10
Received notices	0	0	4	4
Examination				
Treated cases (including previous periods)	20	0	4	4
Performance indicator for examination	Partially satisfactory	N/A	Satisfactory	Satisfactory
Backlog (weeks)	0	0	0	0
Remaining active cases	20	0	0	0
Earliest date of receipt	15.01.2002	-	-	-

NOTE: After putting into production the TerRaSys tools dealing with the examination of Article 11 notices in the bands governed by the GE85-EMA Agreement (in September 2007) and after the completion of the relevant examinations, TSD/FMD carried out the associated Plan modification procedure set forth in the GE85-EMA Agreement, which resulted in 105 updates to the GE85-EMA Plan. These updates were subsequently included in the master copy of the GE85-EMA Plan and dispatched with the BR IFIC (terrestrial services).

Performance indicator: Satisfactory (for AP26, GE85 and GE06L): in 2007, the Bureau carried out the relevant examinations and eliminated the long-standing backlog in the bands governed by the GE85-EMA Agreement (after putting into production the new enhancements to TerRaSys).

Partially satisfactory (for AP25): the BR has followed the relevant steps of the procedure without being in a position to perform the required compatibility assessment.

2.2.2.a3 Processing of submissions to broadcasting service in the HF bands

The treatment of these submissions has followed the standard pattern (for details see Table 2.2.2.a4-1): all valid notices received up to two weeks before each publication are incorporated in the database and included in the appropriate technical examination process. In the reporting period, eleven CD-ROMs have been published, which contain, *inter alia*, HFBC schedules, results of compatibility analysis and the latest version of the HFBC software. This activity also comprises exchange of correspondence with administrations and regional coordination groups concerning possible improvements to software, update of reference data, improvements in the presentation of calculation results, and maintenance of web pages with the latest software updates and reference data.

Performance indicator: Satisfactory. All activities completed in accordance with the schedule indicated in Article 12. The resources used were within the forecasts indicated in the Operational Plan.

2.2.2.a4 Notification, examination and recording procedures pertaining to terrestrial services (Article 11 of the Radio Regulations)

Table 2.2.2.a4-1 summarizes the activities related to notification and other regulatory procedures pertaining to terrestrial services:

Table 2.2.2.a4-1: Notification and other regulatory procedures in 2006

Procedure	Art. 11	Art. 12
Expected input	50 000	22 500 ⁵
Received notices	113 271	30 820
Capture and Validation		
Captured notices	113 271	30 820
Performance indicator for data capture	Satisfactory	Satisfactory
Backlog (weeks)	0	0
Examination		
Examined notices (under TerRaSys)	2 216 (FMTV) 93 174 (FXM)	-
Examined notices (outside TerRaSys)	54 (LFMF BC) 206 (GE06D)	51 811
Performance indicator for examination	Satisfactory	Satisfactory
Backlog (weeks)	12 weeks (FMTV) 16 weeks (LF/MF GE75) 0 weeks (LF/MF RJ81 & RJ88) 0 weeks (FXM) 0 weeks (GE06)	0
Number of notices waiting for standard examination	85 (FMTV) 1 (LF/MF GE75) 0 (LF/MF RJ81 & RJ88) 6 726 (FXM) 0 (GE06D)	0

Performance indicator: The objectives set forth in the Operational Plan (timely processing within the statutory limits) have been achieved for all terrestrial services. The resources used were generally within the forecasts indicated in the Operational Plan, with an emphasis on testing of the delivered components. The relevant statistics on processing of notices is given in Table 2.2.2.a4-2.

Table 2.2.2.a4-2: Notices processed in TerRaSys for Publication in Parts I, II and III of BR IFIC

	Broadcasting			FXM (outside shared bands)			FXM (within shared band)			Totals			Gr. Total
	Pt I	Pt II	Pt III	Pt I	Pt II	Pt III	Pt I	Pt II	Pt III	Pt I	Pt II	Pt III	
1Q07	549	554	8	21010	11047	86	4272	9147	31	25831	20748	125	46704
2Q07	577	446	1	31153	35733	174	6788	3877	304	37941	39610	478	79053
3Q07	360	326	50	10017	10398	113	3952	5257	96	14329	15981	259	30569
4Q07	1026	953	0	21327	18686	87	7502	826	35	29855	20465	122	50442
Total	2512	2279	59	83507	75864	460	22514	19107	466	107956	96804	984	206768

⁵ Number of submissions expected for the Seasons A-2007, B-2007 and A-2008.

2.2.2.a5 Other regulatory procedures, including assistance in the application of the regulatory procedures

2.2.2.a5.1 Special assistance in the application of coordination, Plan modification and notification procedures

In the reporting period, TSD provided the following assistance to administrations related to the application of various regulatory procedures:

- Detailed calculation results and test calculations for RJ81: to **one** administration (VCT) : 5 person-days;
- Detailed calculation results and test calculations for GE84: to **five** administrations (KWT, MTN, QAT, SVN, YEM): 16 person-days;
- Calculation results and test calculations for RJ88: to **one** administration (USA) : 2 person-days;
- Assistance in the determination of suitable frequencies in the frame of the Article 12 procedure (12.12, 12.33) and in resolving cases of harmful interference: to **three** administrations (BUL, GHA, USA): 9 person-days;
- Assistance and clarification in the context of the implementation of Resolution 21 (Rev.WRC-03): to **twelve** administrations ARS, BRM, CUB, CZE, HNG, IRN, JOR, NOR, OMA, RUS, S, VTN): 12 person-days.

2.2.2.a5.2 Special monitoring and treatment of cases of harmful interference

In the reporting period, TSD continued to treat the reports of harmful interference, as a special case of assistance defined in the RR, on a priority basis (normally within 48 hours from their receipt). Several cases were drawn to the attention of the RRB, as requested by the administrations concerned. Furthermore, TSD/TPR continued with the special monitoring program referred to in Resolution 205. The relevant statistics in this regard are summarized in Table 2.2.2.a5-1:

Table 2.2.2.a5-1: Statistics on special monitoring and harmful interference cases

	1Q07	2Q07	3Q07	4Q07	Total year
<u>406-406.1 MHz</u>					
Reports received	7	17	12	8	44
No. of administrations involved	4	20	14	23	
No. of unauthorized emissions	15	85	135	147	382
No. of unauthorized emissions ceased	0	2	0	0	2
<u>Harmful Interference</u>					
No. of new cases (total no. of active cases)	16 (54)	14 (73)	7 (65)	17(72)	54
No. of administrations involved	22	12	11	17	
No. of cases closed	1	1	1	0	3
Cases of assistance to administrations	5	1	1	2	9

2.2.2.a5.3 Regular Monitoring Programme in the HF bands

In the reporting period, the Bureau received a total of **42 526** monitoring observations, as detailed in Table 2.2.2.a5-2. All monitoring observations are available in zipped dBase format and pdf format for internal and external download at <http://www.itu.int/ITU-R/terrestrial/monitoring/index.html>.

Table 2.2.2.a5-2 Monitoring observations received from administrations

Quarter	Observations received on paper	Observations received in electronic format	Total
1Q07	-	12 002	12 002
2Q07	-	9 030	9 030
3Q07	-	12 959	12 959
4Q07	-	8 535	8 535
Grand Total	0	42 526	42 526

2.2.2.a6 Application of administrative and operational procedures

2.2.2.a6.1 In the reporting period, TSD/FMD handled **35** requests dealing with allocation of series of call signs, blocks of selective call numbers and Maritime Identification Digits, in accordance with Article 19, Resolution 13 (Rev.WRC-97), as well as ITU-R and ITU-T Recommendations.

2.2.2.a6.2 In the reporting period, the following means of identification were allocated/modified to administrations/international organizations:

- call sign series: 1 (BIH), 1 (MNE); 2 (SRB)
- blocks of coast station identification numbers: 1 (MNE)
- blocks of ship station selective call numbers: 1 (MNE); 2 (SRB)
- predetermined group of ship stations: 1 (MNE); 1 (SRB)
- MID: 1 (MNE); 1 (SRB)

2.2.2.a6.3 Assistance and clarification 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, IMSO, ICAO, Inmarsat and the UN was provided with regard to the application of the ITU treaty texts within these organizations. A total of **332** communications was exchanged.

2.2.2.a6.4 The electronic version of the ITU Master List for means of identification has been maintained and updated using the Global Administration Database (GLAD).

Performance indicator: Satisfactory. All requests were treated on time and administrations in almost all cases follow the course of actions and other guidance suggested by BR. The staff resources used were within the forecasts indicated in the Operational Plan.

2.4.1 ITU-R publications⁶

2.4.1.1 Regulatory publications (including service publications)

2.4.1.1.1 In the reporting period, the preparation of the regulatory publications and the service publications followed the standard pattern, as foreseen in the Operational Plan, notably:

⁶ Section 2.4.1 pertains to **Objective 4: Disseminate information and know-how**

- The BR International Frequency Information Circular (BR IFIC) was published regularly, every two weeks, in DVD-ROM format and the concerned website was updated on a regular basis.
- List of Coast Stations (List IV): Supplements Nos. 2 and 3 were published in April and October 2007, respectively.
- List of Ship Stations (List V): 47th edition was published in March 2007. Supplements Nos. 1, 2 and 3 were published in June, September and December 2007, respectively.
- List of Radiodetermination and Special Service Stations (List VI): Supplements Nos. 2 and 3 were published in January and July 2007, respectively.
- List of Call-signs of Maritime Mobile Stations (List VIIA): Supplement No. 7 to the 22nd edition was published in January 2007. The 23rd edition was published in April 2007. Supplements Nos. 1 and 2 to the 23rd edition were published in July and October 2007, respectively.
- List of Monitoring Stations (List VIII): The compilation, in electronic format, containing all notified amendments to the 2005 edition of List VIII and already published through the ITU Operational Bulletins (up to 15 January 2007), was posted on the web.
- Optional Provision: The status report (reflecting the situation up to 1 May 2007) was published in the annex to Operational Bulletin 883.

Relevant details are included in Table 2.4.1-1.

Table 2.4.1-1: Cumulative statistics concerning preparation of Service Publications in 2007

Service Documents	Publication	Pages	No. of incoming notifications (all formats)	No. of transactions (including magnetic tapes & diskettes)
List IV (COAST STATIONS)	2 supplements	108	84	2 348
LIST V (SHIP STATIONS)	47 th edition & 3 supplements	1 647	1 777	186 881
LIST VI (RADIODETERMINATION)	2 supplements	126	11	471
LIST VIIA	23 rd edition & 3 supplements	1 467		
LIST VIII	Consolidated supplement	12		
OPTIONAL PROVISION	Annex to OB 893	40		
OPERATIONAL BULLETIN	879, 884, 885, 886, 891, 894, 895, 896, 897, 898	29	17	

2.4.1.1.2 In addition to the standard treatment of notifications from administrations related to the above publications, the Bureau continues to maintain and to update, on a regular basis, the ship-station database for use by the maritime mobile access and retrieval system (MARS). In accordance with the instructions from WRC-03, as contained in Resolution 353 (WRC-03), the Bureau introduced further enhancements to the maritime services database, to the associated software and to MARS, which enabled incorporation of the information concerning MMSI assigned to SAR aircraft conducting search and rescue communications with stations in the maritime mobile service,

as well as appropriate search and retrieval capabilities. These enhancements became operational in August 2007 and the administrations were informed accordingly (Circular letter CM/16).

2.4.1.1.3 Staff of the Department participated in the relevant ITU-R activities (WP 8B) dealing with the contents and periodicity of the maritime service publications (Article 20) and carriage requirements for service publications (Appendix 16).

Performance indicator (for TSD): Satisfactory (all activities initiated and/or completed according to pre-established schedules; some complaints are still being received from users, on the difficulties in installing the BR IFIC: they are normally forwarded to IAP and they seem to be resolved on a case-by-case basis). The staff resources used were within the forecasts indicated in the Operational Plan.

2.5 Assistance, cooperation and other activities⁷

2.5.1 General assistance and co-operation

In the reporting period, TSD continued to provide various kinds of assistance to administrations, as listed in paragraphs 2.2.2.a5.1, 2.2.2.a5.2 and 2.2.2.a6.3.

The Bureau maintained liaison and cooperation with many international and regional organizations, particularly with a view to ensuring effective preparation for WRC-07 and appropriate follow-up for RRC-06 (IMO, CEPT, APT, CITEL, ATU, EBU, etc.). Staff of the Department participated in the meetings of the APT/APG (Bangkok, 7-12 January 2007), CEPT/CPG07-8 (Istanbul, 16-20 April 2007), CEPT/CPG07-9 (Goteborg, 10-13 July 2007), CEPT/PT1 (Mainz, 19-21 March 2007), CEPT/PT1 (Copenhagen, 11-14 June 2007), CEPT/PT4 (Amsterdam, 2 -4 April 2007), CEPT/PT4 (Brest, 30 May -1 June 2007), ECC/PT9 (Copenhagen, 14-15 May 2007), CEPT/WGFM (Vienna, 24-28 September 2007), CITEL PCC-II (Orlando, 30 July -2 August 2007), ATU (Geneva, 28-31 August 2007), IMO/COMSAR11 (London, 19-23 February 2007), JTC of Cospas-Sarsat (Istanbul, 18-19 June 2007), ABU DTV Symposium (Kuala Lumpur, 26-29 March 2007), NAB-2007 Convention (Las Vegas, 14-18 April 2007), the EBU event "Forecast 2007" (Geneva, 20-21 November 2007) and in various meetings of the EBU in Geneva.

Performance indicator: Satisfactory (all requests treated on time, satisfaction has been expressed by Member States). The staff resources used were within the forecasts indicated in the Operational Plan.

2.5.2 Liaison with and support to development activities

2.5.2.1 Staff of the Department was involved in some of the ongoing BDT assistance programmes dealing with spectrum management and conference related activities, including the participation in the BDT seminar on spectrum management (Nouakchott, 19-26 November 2007).

Performance indicator: Satisfactory (timely response to all seminar-related activities). The staff resources used were within the forecasts indicated in the Operational Plan.

2.5.3 Seminars, workshops and related activities

2.5.3.1 Staff of the Department participated in the BR Regional Seminar (Abu Dhabi, 22-26 April 2007) with several presentations, as well as in the ABU Symposium on digital TV (Kuala Lumpur, 26-23 March 2007) with a presentation on the results of the RRC-06.

2.5.3.2 Staff of the Department participated in the BDT Seminar on spectrum management (Nouakchott, 19-26 November 2007), with several presentations, and in the EBU Workshop "Forecast 2007" (Geneva, 20-21 November 2007).

⁷ Sections 2.5.1 to 2.5.3 pertain to **Objective 5**: support and assist membership, in particular developing countries

Performance indicator: Satisfactory (timely initiation of relevant activities). The staff resources used were within the forecasts indicated in the Operational Plan.

3.5.10 TSD activities in software development for processing of terrestrial notifications (TerRaSys-related)⁸

In the reporting period, staff of the Department continued with the testing of various components of the new TerRaSys. The major activities in this regard are listed below:

- Review of Validation Rules with a view to their clarifying and adaptation to the changing circumstances (e.g., decisions of the RRC-06, RRC-06-Rev.ST61 and RRC-06-Rev.GE89), and associated testing of the implemented changes.
- On-going testing of all components made available (TerRaQ, TerRaNV, TerRaTron, TerRaRevFdg, TerRaRevQ, TerRaPub), identification of possible improvements and enhancements, submittal of related change proposals and subsequent testing of the modified software, as delivered.
- Testing of two versions of the software dealing with examination of Article 11 notices (terrestrial services) in the band governed by AP30: the version dealing with the criteria applicable until 1 January 2004 was verified (after several iterations) and put into production in May 2007; the version dealing with the criteria applicable after 1 January 2004 was verified (after several iterations) and put into production in September 2007.
- Testing of the software module dealing with examination of Article 11 notices in the bands governed by the GE85N Agreement; the relevant enhancements were put in production in September 2007.
- Ongoing support in fixing bugs and in system development.
- Development and implementation of software applications required for updating of LFMF data in TerRaBase.

Performance indicator (for TSD): Partially satisfactory (some statutory activities, e.g., examinations of the FXM notices in the bands governed by the AP25 Plan and the RJ88 Agreement are still not performed due to unavailability of examination tools). The staff resources used were within the forecasts indicated in the Operational Plan.

⁸ This Section pertains to **Objective 6: Improve efficiency and effectiveness of BR actions**