

**IMPLEMENTATION OF THE 2005 OPERATIONAL PLAN
(ACTIVITIES OF TERRESTRIAL SERVICES DEPARTMENT (TSD))**

Executive summary

During the year 2005, TSD activities were focused on two main groups of activities:

- Conduct of the intersessional activities as decided by the first session of the Regional Radiocommunication Conferences for planning of the digital terrestrial broadcasting service in parts of Regions 1 and 3, in the frequency bands 174 – 230 MHz and 470 – 862 MHz (Geneva, 2004) and preparation for the second session of RRC.
- 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.

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

- on a bi-weekly basis, through the International Frequency Information Circular (IFIC), for submission under Article 9 of the RR, under various plan modification procedures, and under Article 11 of the RR;
- 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}

Staff of the Department continued with the preparatory activities for WRC-07, such as:

- early review of the agenda items that are relevant for the TSD activities;
- participation in the relevant meetings of the international organizations (e.g. IMO/COMSAR9, IMO/ITU Experts group, CEPT/CPG and its PTs, APT/APG) as well as in the relevant ITU-R Study Group activities (including the participation in the meeting of the WP of the SC, 30 November – 5 December 2005);
- preparation of the relevant background information for detailed consideration of some agenda items (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 of the Radio Regulations and their relevance for agenda item 1.14 of WRC-07).

Performance indicator (for TSD): Satisfactory (early initiation of the relevant activities with a view to ensuring appropriate consideration of the relevant issues). The staff resources used was within the forecasts indicated in the Operational Plan.

2.1.3 Activities related to the RRC-06

2.1.3.1 In accordance with the programme of the intersessional activities, as detailed in Annex 2 to Resolution COM5/1, staff of the Department undertook the following activities related to the conduct of the first planning exercise:

- Processing of the Member States requirements for the first planning exercise, including extensive correspondence, and development of a software tool for inquiries regarding the requirements file. It is to be noted that, at the request from the administrations of the African Member States, the deadline established by RRC-04 (28 February 2005) was extended, for the African Member States, up to 29 May 2005 and the additional requirements that have been declared complete and correct by 3 June 2005 have been included in the first planning exercise.
- Ongoing improvement to the data validation and data correction software in the light of the problems encountered in processing the administrations' requirements, and development of further guidelines for use of this software when submitting digital requirements (FAQ).
- Thorough testing of the planning software (including the preparation of the related working assumptions for the missing parameters and planning criteria) and its implementation with a view to carry out the first planning exercise.
- Development of software relating to the publication of input data for the first planning exercise (requirements and reference situation data).
- Publication of the requirements related to the first planning exercise (CR/238): in summary, 98 Member States from the planning area and one observer (the Palestinian Authority) submitted 54 806 digital broadcasting requirements for the first planning exercise (12 080

¹ The numbering of the sections in this report follows the numbering scheme of the Draft Operational Plan for the period 2005–2008.

² Sections 2.1.1 to 2.1.6 are part of **Objective 1** (*assist and ensure coordination in maintaining and extending cooperation among all Member States and Sector Members in the decision-making on Radiocommunication issues*)

requirements in the VHF band and 42 726 requirements in the UHF band; the requirements in the VHF band comprised 5 905 digital sound broadcasting requirements and 6 175 digital television broadcasting requirements).

- Establishment of the “equivalent reference situation for the first planning exercise” concerning the broadcasting services. In this connection, the Bureau compiled the pertinent data from the relevant databases (the updated versions of the ST61 and GE89 Plans, the MIFR and the RCC List, as well as the particular submissions from IRQ), using the specific indications from the Member States concerned, where applicable, through BC6 notices or otherwise. In summary, some 35 333 analogue television broadcasting assignments have been included in the first planning exercise (out of 55 399 potentially eligible assignments).
- Establishment of the “equivalent reference situation for the first planning exercise” concerning the primary terrestrial services other than broadcasting. In this connection, the Bureau compiled the relevant data from the MIFR, using the specific indications from the Member States concerned, where applicable, through R06 notices or otherwise. In summary some 8 107 assignments to other primary services from 28 administrations have been included in the first planning exercise (out of 12 529 potentially eligible assignments from 38 administrations).
- Establishment of provisional arrangements for submission of administrative declarations, their processing and inclusion in the first planning exercise. In summary, 49 Member States from the planning area submitted 811 193 usable declarations for the first planning exercise (including the additional test cases).
- Conduct of the first planning exercise for four case studies and their submission to the IPG-1; further refinement of these case studies (after consideration by the IPG) and their publication (CR/240); conduct of additional test cases (including ones with relaxed planning parameters) for consideration by the WPIPG (28-29 September 2005); this activity comprised the development, by the BR/TSD, of software relating to the publication of results of the first planning exercise.
- Organization and necessary support to the meetings of the Planning Exercise Team (17-19 January 2005; 18-20 April 2005; 1-3 June 2005, 7-9 September 2005, 10-11 November 2005) and of the Steering Group of the IPG (10-11 February 2005; 30 June-1 July 2005, 17-18 December 2005), including preparations of several contributions for these bodies and participation in two Working Groups of the PXT (on testing procedure and missing criteria and parameters).
- Organization and necessary support to the first meeting of the IPG (4-8 July 2005), including the preparation of relevant contributions to this meeting (Director’s report, documents on the working assumptions adopted for the first planning exercise, etc.).
- Organization and necessary support to the meeting of the Working Party of the IPG (28-29 September 2005), including the conduct of additional test cases with the data submitted for the first planning exercise, as well as preparation of additional contributions to this meeting³.

³ The preparations for this meeting, which was not envisaged by the decisions of the RRC-04, resulted in an additional workload for the TSD staff and in less support than envisaged for other concurrent activities (e.g. participation in the Study Group meetings).

2.1.3.2 In accordance with the programme of the intersessional activities, as detailed in Annex 2 to Resolution COM5/1, staff of the Department undertook the following activities related to the production of the draft plan:

- In accordance with the decisions of the first meeting of the IPG, the required adjustments to the electronic formats for submission of digital requirements were introduced and dispatched to the membership on 29 July 2005 (CR/242). The relevant software package (that includes data capture, data validation, data correction and data query) was adapted accordingly and enhanced with a new routine for final validation of all the consolidated digital requirements files; this software package was made available to the membership on 10 August 2005.
- In accordance with the time schedule for the conduct of the intersessional activities, the membership was invited to submit requirements for the development of the draft Plan, by 31 October 2005. Appropriate guidelines were provided in this respect (CR/241 of 29 July 2005). All the received requirements (some 82 323 notices) were processed, validated and published on a dedicated web page by 23 December 2005 (with the exception of the validation of the fields regarding the conversion from analogue to digital). In addition, the administrations that did not submit requirements for the draft Plan have been contacted and the related course of action was implemented (including generation of digital requirements for seven Member States).
- With respect to the establishment of the reference situation concerning the existing and planned assignments in analogue broadcasting and other primary terrestrial services: individual letters with appropriate extracts have been dispatched to the concerned administrations dealing with various issues (assignments to BT stations recorded in the MIFR prior to 31 December 1989, assignments appearing in the RCC List, assignments to primary services other than broadcasting), as well as overall guidelines regarding the establishment of the reference situation for the production of the draft Plan (CR/243 related to the other primary services, CR/244 related to the analogue broadcasting). All the relevant submissions that were received by the reference date have been processed in a timely manner (including the voluminous submissions under ST61 and the updated RCC list). The remaining activities (processing of the BC6 notices, coordination examination regarding the FXM notices) would be completed in early 2006, in accordance with the schedule established by RRC-04.
- Based upon the conclusions of the IPG-1, a discussion paper was prepared for the PXT meeting (September 2005) regarding the new mechanism for submission of administrative declarations. A further information paper on this issue was submitted to the WPIPG, for its meeting in September 2005. After consideration of the matter by the WPIPG, the relevant aspects were further reviewed and the consolidated information was circulated with CR/246 and its Addendum 1. The relevant arrangements for the processing of this information are under implementation.
- The relevant preparatory activities concerning the second meeting of the IPG (20-24 February 2006) have been initiated in a timely manner, including the preparation of relevant contributions to this meeting (Director's report, etc.).

2.1.3.3 With respect to the regulatory/procedural matters, staff of the Department was involved in the following activities:

- Participation in all three meetings of the Sub-working group 1 of the Working Party of the RPG (7-9 March 2005, 27-29 June 2005 and 30 August-1 September 2005); in this connection, staff of the Department contributed to the preparation of several submissions to

this group, providing observations on the draft new Agreement, as well as example texts for the Final Acts of the short conference.

- Participation in the meeting of the RPG (5-9 December 2005), including the preparation of relevant contributions to this meeting (Director's report).

2.1.3.4 With respect to the organization of regional information meetings/workshops:

- Organization of and participation in the information meeting and associated workshop for the administrations of the African Member States (Dakar, Senegal, 25-29 April 2005). The event was attended by 126 participants from 40 African countries (BR provided 25 fellowships for the participants from the administrations of the LDCs in Africa).
- Organization of and participation in the information meeting and associated workshop for the administrations of the Arab Group of countries (Damascus, Syria, 16-18 August 2005). The event was attended by 64 participants from 17 Arab countries and one observer (Palestinian Authority).
- Organization and participation in the second information meeting and associated workshop for the administrations of the African Member States (Accra, Ghana, 10-14 October 2005). The event was attended by 89 participants from 35 African countries (BR and BDT provided 22 fellowships for the participants from the administrations of the LDCs in Africa).

Staff of the Department also participated in other seminars and workshops dealing with RRC issues (e.g. in the Digital Broadcasting Switchover Forum organized by the Commonwealth Telecommunications Organisation (CTO), London, 21-23 March 2005, EBU workshop in Geneva, 12 September 2005, EBU event "Forecast 2005" in Geneva, November 2005) as well as in the relevant preparatory meetings of the regional telecommunication organizations.

2.1.3.5 With respect to the organization of the second session of the RRC:

- Staff of the Department was involved in the preparation of the invitations for the RRC-06 (Geneva, 15 May-16 June 2006) to the Member States from the planning area and to the concerned organizations, as well as for the short conferences to revise the ST61 and GE89 Agreements.
- Staff of the Department initiated the necessary actions for the establishment of the ITU Task Force for the preparation of the RRC-06 and participated in the relevant meetings of the Task Force (13 October 2005, 29 November 2005).
- Staff of the Department participated in the meetings of the Informal Group of regional representatives for the preparation of the RRC-06.

2.1.3.6 Staff of the Department gave early consideration to the possible working arrangements for RRC-06. In this connection, the relevant hardware requirements were specified and, after consideration of the specifications with the IS Department, the associated purchasing activities have been initiated. Staff of the Department also established close collaboration with CERN, concerning the use of the CERN technology and infrastructure for complementing the ITU computational resources for RRC-06.

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 follow-up activities resulting from the twelfth RAG meeting (22-26 November 2004), in preparation of documents for the thirteenth RAG meeting (e.g. contributions to the Director's report, special report on the RRC-related activities, contribution to the draft Operational Plan for 2006-2009, etc.) and participated in the work of the 13th RAG meeting (31 October-4 November 2005).

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

2.1.5 RRB-related activities

Staff of the Department prepared the required input for the Director's reports to the 36th, 37th, 38th and 39th RRB meetings, including the special reports dealing with specific cases of harmful interference, and implemented the relevant follow-up actions.

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

2.1.6 ITU-R Study Groups related activities

Staff of the Department followed the activities of the ITU-R Study Groups, including participation in the meetings of the concerned Working Parties, with special attention to the Working Parties involved in the consideration of the issues relevant for WRC-07 and RRC-06. In the reporting period, staff of the Department participated in the meetings of the SG/WP held in Geneva (WP 6E, 8A, 8B, WG/SC) as well as outside Geneva (WP9D in Tunis, 20-29 April 2005).

Performance indicator: Satisfactory (participation considered valuable for the TSD staff and for the other participants). 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 services⁴

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 (these include the tools for processing submissions to BC and BT notices in the VHF and UHF bands, and for treatment of FXM⁵ notices governed by Article 11 of the RR, except the examination of the FXM notices in the bands governed by AP30/30A Plans, the GE85-EMA and RJ88 Agreements).
- Using local data management systems and similar equivalents outside TerRaSys (such arrangements are used in the context of the AP26, GE75 and RJ81 Plans; in the context of

⁴ Section 2.2.2 pertains to **Objective 2** (*Perform the necessary processes and actions to ensure a rational, equitable, efficient and economical use of the radio frequency spectrum*)

⁵ FXM stands for the submissions in the fixed, mobile and other services, except the broadcasting service in the LF/MF and VHF/UHF bands.

the LF/MF BC submissions under Article 11 of the RR, 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 Article 9 submissions and for some type of examinations under AP25, and GE85-MM Plans as well as for some types of examinations of submissions under Article 11).

I.2 At the time of the preparation of this report, the Department was still without any operational tool (either standard or provisional) in the following areas and no activity is being performed yet in these 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-EMA.
- Examination of the FXM notices governed by Article 11 of the RR (in the bands governed by AP30/30A Plans, the GE85-EMA Agreement and 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	14
Examined notices (including previous periods)	53
Remaining number of active cases	407
Performance indicator for examination	Satisfactory
Backlog (weeks)	0

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

The Bureau continues to receive a considerably higher number of notices, in the context of the VHF/UHF BC/BT services, compared to the amounts envisaged in the Operational Plan (5.17 times higher input in 2005 compared to the expected one). 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)⁶

Procedure	ST61	GE75	RJ81	GE84	GE89
Expected input	2 500	80	60	2 000	500
Received notices	17 990	204	29	2 896	5 818

⁶ Submissions under ST61, GE84 and GE89 Agreements are treated under TerRaSys; submissions under GE75 and RJ81 are treated outside TerRaSys (using local database systems).

Capture and Validation					
Captured notices	17 990	204	29	2 896	5 818
Performance indicator for data capture	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Backlog (weeks)	0	0	0	0	0
Examination and publication					
Published notices (Part A)	3 931	142	1	1 733	1 932
Notices awaiting publication in Part A	308 (9 weeks)	17 (2 weeks)	28 (22 weeks)	153 (3 weeks)	199 (12 weeks)
Published notices (Part B)	8 091	34	36	1 442	7 791
Notices awaiting publication in Part B	1 390 (9 weeks)	0 (0 weeks)	1 (13 weeks)	8 (2 weeks)	21 (2 weeks)
Performance indicator for examination and publication	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 and GE89), and outside TerRaSys in the context of the LF/MF Plans (GE75 and RJ81). The resources used were proportional to the forecasts indicated in the Operational Plan.

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

Procedure	AP 25	AP 26	GE85
Expected input	20	10	40
Received notices	11	0	5 (Note 1)
Examination			
Treated cases (including previous periods)	27	0	5
Performance indicator for examination	Partially satisfactory	N/A	Partially satisfactory
Backlog (weeks)	0	0	0 (Note 1)
Remaining active cases	20	0	5 (Note 1)
Earliest date of receipt	15.01.2002	-	17.03.2005 - (Note 1)

Note 1: There are some 140 notices, under RR_ART11 procedure, in the bands governed by the GE85-EMA Agreement, which may be eligible for the application of the Plan modification procedure (earliest date of receipt: 29 September 2000). These notices will be processed once the relevant tools are made available.

Performance indicator: Partially satisfactory (for AP25 and GE85): 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 a standard manner (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 2005

Procedure	Art. 11	Art. 12
Expected input	50 000	15 000 ⁷
Received notices	161 555	31 701
Capture and Validation		
Captured notices	161 555	31 701
Performance indicator for data capture	Satisfactory	Satisfactory
Backlog (weeks)	0	0
Examination		
Examined notices (under TerRaSys)	5 920 (FMTV) 146 058 (FXM)	-
Examined notices (outside TerRaSys)	83 (LFMF)	53 295
Performance indicator for examination	Satisfactory (FMTV+LFMF) Partially satisfactory (FXM)	Satisfactory
Backlog (weeks)	5 weeks (FMTV) 24 weeks (LF/MF) 260 weeks (FXM)	0
Backlog (number of notices waiting for standard examination)	290 (FMTV) 5 (LF/MF) 20 651 (FXM)	0

Performance indicator: The objectives set forth in the Operational Plan (timely processing within the statutory limits using standard tools) have been fully achieved in the context of the BC/BT notices and have been partially achieved in the context of the FXM notices. The objectives set forth in the Operational Plan could not be achieved with respect to FXM notices in the bands governed by the GE85 and RJ88 Agreements. 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.

⁷ Number of submissions expected for the Seasons A-2005 and B-2005

Table 2.2.2.a4-2: Notices processed in TerRaSys for publication in Parts I, II and III of BRIFIC

	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	
1Q05	957	399	4	25460	15179	518	2720	3258	126	29137	18836	648	48621
2Q05	1951	785	153	45881	34581	46	10498	13599	83	58330	48965	282	107577
3Q05	1608	2148	427	21122	25451	113	6173	19662	310	27295	45113	423	72831
4Q05	1530	1203	679	23558	26616	58	3081	6251	218	28169	34070	955	63194
Total	6046	4535	1263	116021	101827	735	22472	42770	737	142931	146984	2308	292223

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 coordination distance calculation for ST61: to **four** administrations (BUL, D, SVN, TUN): **6** person-days
- Detailed calculation results and test calculations for GE84: to **two** administrations (BHR, QAT): **6** person-days
- Detailed calculation results and test calculations for GE75: to **two** administrations (INS, ZWE): **6** person-days
- Detailed calculation results and test calculations for GE89: to **two** administrations (BHR, IRQ): **16** person-days
- Analysis and correction proposal of discrepancies in locations of ground conductivity and borderlines between USA and Mexico: to **one** administration USA: **6** person-days
- Assistance in the determination of suitable frequencies in the frame of the Article 12 procedure (12.12, 12.33) to **two** administrations (DJI, MCO): **3** 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). One particular case was drawn to the attention of the RRB, as requested by the administration concerned. Furthermore, the 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

	1 Q 05	2 Q 05	3 Q 05	4 Q 05	Total year
<u>406-406.1 MHz</u>					
Reports received	7	6	12	11	36
No. of Administrations involved	10	10	15	4	
No. of unauthorized emissions	12	17	22	4	55
No. of unauthorized emissions ceased	2	4	3	2	11
<u>Harmful Interference</u>					
No. of new cases (total no. of active cases)	11 (22)	22(55)	17(65)	13(79)	63
No. of Administrations involved	15	16	18	12	
No. of cases closed	3	2	3	3	11
Cases of assistance to Administrations	3	3	4	5	15

2.2.2.a5.3 Regular monitoring programme in the HF bands

In the reporting period, the Bureau received a total of **44 421** 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
1Q05	-	14 389	14 389
2Q05	-	9 126	9 126
3Q05	-	10 520	10 520
4Q05	-	10 386	10 386
Total	-	44 421	44 421

2.2.2.a6 Application of administrative and operational procedures

2.2.2.a6.1 In the reporting period, TSD/FMD handled **16** requests dealing with the 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 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** (CHN/MAC)
- blocks of coast station identification numbers: -
- predetermined group of ship stations: -
- MID: **4** (CHN/MAC, ARM, PNR, SNG)

2.2.2.a6.3 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 **480** 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.

2.3.1 ITU-R publications⁸

2.3.1.1 Regulatory publications (including service publications)

2.3.1.1.1 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:

- The BR International Frequency Information Circular (BRIFIC) was published regularly, with no delay, every two weeks, and the concerned website was updated on a regular basis. The first regular edition of BRIFIC (Terrestrial service) in DVD format was prepared in late March 2005 (issuing date: 5 April 2005). As from BRIFIC 2554 prepared on 27 September 2005 (date of publication: 4 October 2005), the publication BRIFIC (Terrestrial Services) is available in the DVD-ROM format only.
- List of Coast Stations (List IV): Supplements Nos. 2 and 3 were published in April and October 2005, respectively. Preparatory work for the 20th edition is underway (a multiple destination letter was sent to all administrations on 29 September 2005 requesting them to notify amendments to the List). The presentation of the List was reviewed in order to give greater relevance to GMDSS data. Concerning AIS stations, appropriate letters were addressed to the concerned administrations.
- List of Ship Stations (List V): Supplement No. 3 was published in March 2005. The 45th edition was published in June 2005. To cope with the main objective (maintaining the paper version, Part A, to the required minimum), all pleasure crafts (PL), notified to the Bureau, have been included in Part B (onto the CD-ROM). In the related activities and based on the studies of the Marketing and Sales service, a new arrangement has been established for the forthcoming editions (release of the main edition in March instead of June); the new arrangement has been reflected in the concerned Publication Notice. Supplement Nos. 1 and 2 to the 45th edition were published in September and December 2005 respectively. Substantive activities were conducted with two administrations (G, GRC), due to errors in their large submissions, and the matter was resolved successfully.
- List of Radiodetermination and Special Service Stations (List VI): Supplement No. 4 was published in March. Preparatory work for the 16th edition is underway. A multiple destination letter was sent to all administrations in April 2005 requesting them to notify amendments to the List, with a further reminder in June 2005. The content of this List was

⁸ Section 2.3.1 pertains to **Objective 3: Disseminate information and know-how on radiocommunication issues by publishing and distributing information material and results of studies and membership decisions, as well as promote ITU-R and coordination with the other Bureaux**

enhanced by adding a new section (2c), concerning DGNSS transmitting stations. To facilitate the notification process, a new form was created and circulated to the administration; this form has also been posted on the MARS web page. Due to lack of updates or confirmation from 16 administrations, over a considerable period, their entries in the list have been deleted. The composition and page setting for the entire edition was carried out by the author and forwarded to the Text Composition Service.

- List of Call-signs of Maritime Mobile Stations (List VIIA): Supplement No. 7 to the 21st edition was published in January 2005. The 22nd edition was published in April 2005 with consequential changes resulting from the changes in List V (the information concerning ship stations is restricted to only those ship stations for which an MMSI has been notified, with the exception of all pleasure ships (PL)). Supplements Nos. 1 and 2 to the 22nd edition were published in July and October 2005 respectively.
- List of Monitoring Stations (List VIII): The 10th edition was published in March 2005, comprising 182 pages and one map. For the first time the page setting for the edition was done by the author and forwarded to the Text Composition Service. One amendment was published in OB 847.
- Optional Provision: No activity in this period.

Relevant details are included in Table 2.3.1-1.

Table 2.3.1-1: Cumulative statistics concerning preparation of Service Publications in 2005

Service Documents	Publication	Pages	No. of incoming Notifications (all formats)	No. of transactions (including magnetic tapes & diskettes)
LIST IV (COAST STATIONS)	2 supls.	156	83	3 586
LIST V (SHIP STATIONS)	45 th Edition + 3 supls.	1 680	1 682	163 696
LIST VI (RADIODETERMINATION)	one suppl.	120	117	5 979
LIST VIIA	22 nd Edition + 3 supls.	1 437	Internal extraction	
LIST VIII	10 th Edition	182 + 1 map	8	495
OPTIONAL PROVISION	-	-		
OPERATIONAL BULLETIN	828, 833-836, 838, 839, 844, 847, 848, 849	68	23	

2.3.1.1.2 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 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).

2.3.1.1.3 Following the entry into force of the new edition of the Radio Regulations, the Bureau compiled a new edition of the Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services.

2.3.1.1.4 In the context of the preparation for WRC-07, a questionnaire was developed, dealing with the possible changes to the form, content and periodicity of the service publications, and circulated with circular letter CM/14.

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 BRIFIC: 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.

2.4 Assistance, cooperation and other activities⁹

2.4.1 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 for RRC-04/06 (IMO, CEPT, APT, EBU, etc.). Staff of the Department participated in the meetings of the CEPT/CPG07 (Neuchatel, 17-20 January 2005), APT/APG07 (Bangkok, 28 February-4 March 2005), CEPT/WG-RRC06 (Krakow, 22-25 February 2005; Groningen, 14-16 June 2005; Tours, 4-6 October 2005), CEPT/WG-FM (Koblenz, 26-30 September 2005), CEPT/PT3 (Copenhagen, 29-31 August 2005), CEPT/PT4 (Rome, 6-8 September 2005), IMO/COMSAR9 (London, 7-11 February 2005), the joint IMO/ITU experts group meeting related to WRC-07 agenda items (London, 13-15 June 2005), the meeting of the Joint Technical Committee of Cospas-Sarsat (London, 7-10 June 2005)) and in the CTO workshop on Digital Broadcasting Switchover (London, 21-24 March 2005).

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.

2.4.2 Liaison with and support to development activities

Staff of the Department was involved in the ongoing distance-learning course on spectrum management, as well as in the review of the descriptions for some of the BDT assistance programmes dealing with spectrum management and conference related activities.

The Department ensured prompt actions to the requests for fellowships, to the participants in the following meetings: African preparatory meeting and workshop for RRC-06 in Dakar (April 2005, 25 fellowships), IPG-1 in Geneva (July 2005, 26 fellowships), second African preparatory meeting and workshop for RRC-06 in Accra (October 2005, 22 fellowships); all logistic support was provided by the BDT.

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

⁹ Sections 2.4.1 to 2.4.3 pertain to **Objective 4: Provide support and assistance mainly to developing countries in relation to the radiocommunication matter**

2.4.3 Seminars, workshops and related activities

Staff of the Department participated in the Regional BR Seminar for Region 3 countries (Bali, 16-20 May 2005), as well as in the Regional BR Seminar for Region 2 countries (Brazil, 21-25 November 2005).

Performance indicator: Satisfactory (timely response to the seminar-related 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 notifications¹⁰

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:

- Completion of the beta tests on the software related to the processing of T11-T14 notices in the bands shared with space services which involve down link allocation to the space services; this part of the software (excepting notices in the bands governed by AP30/AP30A) was subsequently put into production (on 24 March 2005).
- Review of Validation Rules with a view to their clarifying.
- 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.
- Ongoing support in fixing bugs and in system development.

Performance indicator (for TSD): partially satisfactory (some statutory activities, e.g. examinations in the bands governed by the GE85-EMA and RJ88 Agreements are still not performed due to unavailability of examination tools). The staff resources used were within the forecasts indicated in the Operational Plan.

¹⁰ This Section pertains to **Objective 5: Improve efficiency and effectiveness of the Radiocommunication Bureau activities/actions to support the outputs**