|  |  |
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| **Radiocommunication Advisory Group Geneva, 5-8 May 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
|  |  |
|  | **Document RAG15-1/1-E** |
| **16 March 2015** |
| **Original: English** |
| Director, Radiocommunication Bureau | |
| report TO the twenty-SECOND meeting of the radiocommunication advisory group | |

# 1 Introduction

This document provides status reports and background information on some of the issues that appear on the draft agenda for the 22nd meeting of RAG (see [CA/218](http://www.itu.int/md/R00-CA-CIR-0212/en) of 21.01.2015). This document is intended to assist the meeting in considering the relevant agenda items.

Separate reports will be submitted for some of the agenda items.

# 2 Council issues

This section covers the relevant issues related to the 2014 session of the Council (see: <http://www.itu.int/council/>).

## 2.1 Publications

The free online access policy continues to provide a very large dissemination of ITU standards to a broader public, especially in developing countries with financial constraints. This wide outreach via free online access is helping to build the visibility of ITU’s mission and mandate and reinforce ITU as a global telecommunication authority.

By Decision 12 (Guadalajara, 2010), PP-10 expanded the free online access policy to include, *inter alia*, ITU‑R Recommendations and Reports. Subsequently, Council-12 Decision 571 provided free online access to the Radio Regulations (RR) to the general public for a trial period until PP-14, and Council-13 revised Decision 571 and extended this free online access to include the ITU‑R handbooks on radio-frequency spectrum management[[1]](#footnote-1) for the general public on a permanent basis.

Council-14 further revised Decision 571 to provide free online access to the Radio Regulations and the Rules of Procedure to the general public on a permanent basis.

PP-14 revised Decision 12 to provide free online access for the general public, on a permanent basis, to ITU‑R, ITU‑T and ITU‑D Recommendations and Reports; ITU‑R handbooks on radio-frequency spectrum management[[2]](#footnote-2); ITU publications concerning the use of telecommunications/ICTs for ensuring disaster preparedness, early warning, rescue, mitigation, relief and response; the International Telecommunication Regulations (ITRs); the Radio Regulations; the Rules of Procedure; the basic texts of the Union (Constitution, Convention, General Rules of conferences, assemblies and meetings of the Union, decisions, resolutions and Recommendations); the final acts of plenipotentiary conferences; the final reports of WTDCs; the ITU Council resolutions and decisions; the final acts of world and regional radiocommunication conferences; and the final acts of world conferences on international telecommunications.

The impact of these decisions is well reflected in the outstanding number of deliveries of such publications, as presented next.

Concerning the Radio Regulations and the Rules of Procedure, comparison of the situations regarding the 2008 edition of the RR (released in September 2008) and the 2012 edition (released in December 2014) produces the following figures:

|  |  |  |
| --- | --- | --- |
|  | Paid | Free download |
| *RR-08 (4 years of sales)* | 14 870 | - |
| *RR-12 (26 months of sales)* | 12 555 | 18 449 |
| *ROP 2012* ***(****since Council-14 decision)* | 10 | N/A |

The above figures confirm the conclusions presented during the last RAG meeting: free download has had no impact on sales. If compared to sales of RR-08, made over 48 months, sales of RR-12 amount to 84% of the RR-08 sales after only 26 months (54% of the 48-month reference period). It may therefore be expected that RR-12 sales will exceed RR-08 sales. It is also important to note the large number of free downloads (roughly 50% more than paid versions), which illustrates the positive impact of the decisions taken.

Regarding the handbooks on radio-frequency spectrum management, since the Council-13 decision the number of downloads has kept increasing, as can be seen in the following table (data up to 31.01.2015):

|  |  |  |  |
| --- | --- | --- | --- |
| Handbook | Paid | Downloads | % |
| Computer-aided Techniques for Spectrum Management (CAT) | 7 | 363 | 10% |
| National Spectrum Management 2005 | 20 | 946 | 25% |
| Spectrum Monitoring 2011 | 52 | 2,458 | 65% |
| **Grand Total** | **79** | **3 767** | **3 767** |

These numbers also illustrate the positive impact of the decision. Spectrum Monitoring is the most downloaded handbook, accounting for 65% of the total.

An analysis of the number of downloads of both ITU‑R Recommendations and ITU‑R Reports is presented in Annex 1 to this report.

## 2.2 Cost recovery for satellite network filings

Council-13 approved modification of Decision 482 for the implementation of cost recovery for the consolidation of frequency assignments in the MIFR of different GSO networks submitted by an administration (or an administration acting on behalf of a group of named administrations). Decision 482 (modified 2013) entered into force on 1 July 2013.

Implementation of Decision 482 (Council-05), and subsequently Decision 482 (modified 2012) and Decision 482 (modified 2013) by the Radiocommunication Bureau has not given rise to any difficulty or created any problems either internally or with administrations notifying satellite networks.

## 2.3 Conformance and interoperability (C&I)

Resolution 177 (Rev. Busan, 2014) endorsed the objectives of WTSA-12 Resolution 76, RA-12 Resolution 62, WTDC-14 Resolution 47, recognizing that “widespread conformance and interoperability of telecommunication/ ICT equipment and systems through the implementation of relevant programmes, policies and decisions can increase market opportunities and reliability and encourage global integration and trade”, and resolved to continue implementing the ITU C&I Action Plan reviewed by the ITU Council.

The ITU C&I programme mandated by Resolution 177 (Rev. Busan, 2014) is still based on four pillars: Pillar 1: Conformity assessment (CA); Pillar 2: Interoperability events; Pillar 3: Human resource capacity building; and Pillar 4: Assistance in the establishment of test centres and C&I programmes in developing countries.

Actions under Pillars 1 and 2 are led by the Telecommunication Standardization Bureau (TSB), actions under Pillars 3 and 4 by the Telecommunication Development Bureau (BDT). ITU‑R continues to collaborate with, and provide information when requested by, ITU‑T and ITU‑D on C&I testing, as indicated in the *resolves* section of Resolution ITU‑R 62.

## 2.4 Budget for 2014-2015 period

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Budget 2014-2015 - Radiocommunication Sector | | | | | | | |
|  |  | In thousands of Swiss francs | | | | | |
| Operating expenses by section | | Actual | Budget | Estimated | Actual | Estimated | Estimated |
|  |  | 2010-2011 | 2012-2013 | 2014 | 2014 | 2015 | 2014-2015 |
|  |  |  |  |  |  |  |  |
| Section 3.1 | World radiocommunication conferences | 2 | 3 000 | 0 | 0 | 2 811 | 2 811 |
|  |  |  |  |  |  |  |  |
| Section 3.2 | Radiocommunication assemblies | 0 | 375 | 0 | 0 | 368 | 368 |
|  |  |  |  |  |  |  |  |
| Section 4.1 | Regional radiocommunication conferences | 0 | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |  |  |
| Section 5.1 | Radio Regulations Board | 977 | 1 363 | 731 | 415 | 731 | 1 462 |
|  |  |  |  |  |  |  |  |
| Section 5.2 | Radiocommunication Advisory Group | 115 | 123 | 72 | 41 | 72 | 144 |
|  |  |  |  |  |  |  |  |
| Section 6 | Study groups | 2 244 | 1 750 | 988 | 321 | 975 | 1 963 |
|  |  |  |  |  |  |  |  |
| Section 7 | Activities and programmes | 1 585 | 1 920 | 850 | 264 | 650 | 1 500 |
|  |  |  |  |  |  |  |  |
| Section 8 | Seminars | 476 | 944 | 521 | 190 | 422 | 943 |
|  |  |  |  |  |  |  |  |
| Section 9 | Bureau | 55 192 | 52 311 | 27 000 | 24 731 | 25 868 | 52 868 |
|  | - Common expenditure | 2 105 | 2 054 | 1 034 | 391 | 934 | 1 968 |
|  | - Office of the Director | 1 459 | 1 278 | 643 | 615 | 629 | 1 272 |
|  | - Study Groups Department | 6 632 | 6 243 | 2 587 | 2800 | 2 484 | 5 071 |
|  | - Space Services Department | 17 639 | 16 496 | 8 538 | 8032 | 8 078 | 16 616 |
|  | - Terrestrial Services Department | 14 205 | 13 131 | 6 671 | 4233 | 6 414 | 13 085 |
|  | - Informatics, Administration & Publications Department | 13 152 | 13 109 | 7 527 | 6658 | 7 329 | 14 856 |
|  |  |  |  |  |  |  |  |
| **TOTAL** |  | **60 591** | **61 786** | **30 162** | **25 962** | **31 897** | **62 059** |

## 2.5 Strategic Plan and Financial Plan of ITU‑R for 2016-2019 (IAP Department)

The strategic and financial plans of the Union as approved by PP-14 in Resolution 71 (Rev. Busan, 2014) can be found at: [http://www.itu.int/dms\_pub/ITU‑s/opb/conf/S-CONF-ACTF-2014-PDF-E.pdf](http://www.itu.int/dms_pub/itu-s/opb/conf/S-CONF-ACTF-2014-PDF-E.pdf).

## 2.6 Space Protocol

In line with its previous decisions, Council-14 noted the information submitted by the secretariat relating to the possible role of ITU as Supervisory Authority of the International Registration System for Space Assets under the Space Protocol and authorized the Secretary-General to continue to express ITU’s interest in becoming the Supervisory Authority, noting that the matter of whether or not ITU could become the Supervisory Authority should not be prejudged at the current stage. In addition, Council-14 authorized the Secretary-General or his representative to continue to participate in the work of the Preparatory Commission and its working groups as an observer. The Council also authorized the Secretary-General to submit a report on the matter to PP-14 and to report on progress to Council-15.

The issue of the Space Protocol was discussed at PP-14. At its 17th Plenary meeting, PP-14, having taken into account the related report of the Secretary-General to the conference (Document 62 and its Addendum 1), agreed “that Council continue to monitor any further development on this matter, and that the Secretariat continue to express interest in ITU becoming the Supervisory Authority and respond to any questions raised by the Member States between now and the next Plenipotentiary Conference.”

# 3 WRC issues

## 3.1 WRC‑15 preparation

The ITU‑R working parties and joint task group completed the development of texts for the studies assigned to them by CPM15-1, and these were included in the draft CPM Report for consideration at CPM15-2. In some cases technical studies are continuing in the relevant ITU‑R working parties to finalize supporting ITU‑R Recommendations/Reports in preparation for both RA-15 and WRC‑15. Detailed information regarding these ITU‑R preparatory studies can be found on the following updated ITU webpage: [www.itu.int/ITU‑R/go/rcpm-WRC‑15-studies](http://www.itu.int/ITU-R/go/rcpm-wrc-15-studies).

The addition by PP-14 of global flight tracking as a new item on the agenda of WRC‑15, as requested by Resolution 185 (Busan, 2014), resulted in the acceleration of the ITU‑R studies on this issue. These studies will be reported to WRC‑15.

Taking into account Resolution 80 (Rev. Marrakesh, 2002), extensive preparations for WRC‑15 have been conducted through BR’s active participation in the preparatory meetings of the regional groups, including APT, ASMG, ATU, CEPT, CITEL and RCC. ITU has been assisting these preparations wherever possible, noting, in particular, WRC Resolution 72 (Rev. Geneva, 2007).

The first ITU interregional workshop on WRC‑15 preparation was held in Geneva on 4-5 December 2013 and a second workshop took place on 12-13 November 2014. A third and final such ITU workshop is planned in Geneva during the first week of September 2015.

The ITU‑R webpage for WRC‑15 at [www.itu.int/go/WRC‑15](http://www.itu.int/go/wrc-15) has been updated and provides direct access to the above-mentioned information.

In keeping with the spirit of PP-14 Decision 5 (Annex 2), the understanding and assistance of administrations has been sought in having RA/WRC‑15 as fully paperless events. These measures are outlined, for RA-15 and WRC‑15 respectively, in BR Administrative Circulars CACE/716 and CA/219 of 17 February 2015.

## 3.2 Implementation of WRC‑12 outcomes

BR has pursued software development and implementation to implement WRC‑12 decisions. The table below presents a summary of the main tasks under consideration.

### 3.2.1 Software development to implement decisions of the conference

Software development activities to implement WRC‑12 decisions

|  |
| --- |
| Resolution 907: develop a new [web] application which will provide administrations with means to submit and receive correspondence to and from BR including satellite filings in a secure environment.  Status: In design phase. |
| Resolution 908: develop a new web application which will provide administrations with means to capture advance publication subject to coordination under Article 9, subsection 1B, to publish and manage API special sections.  Status: SpaceWisc application released for beta testing during WRS-14 in December 2014. |
| Alignment of the terrestrial portion of the MIFR with ICAO database: the Bureau continued developing the appropriate software tools allowing administrations to align their data in the MIFR with their relevant data in the ICAO database. For that purpose, comparison software and notice generation prototypes have been completed, allowing administrations to identify the need for the MIFR update and automatically generate the necessary electronic notices to be notified to BR. This is now in test phase, and further interaction with ICAO is ongoing. The progress depends considerably on availability of the ICAO database on the web, which is currently under development. |

### 3.2.2 General actions to implement decisions of the conference

Based on the analysis made by the Bureau of the decisions of WRC‑12 and their impact on the current Rules of Procedure, the Radio Regulations Board (RRB), pursuant to the provisions of Nos. 13.12 and 13.14 of the Radio Regulations, pursued its adoption of new and revised Rules of Procedure. Updates to the 2012 edition were published, incorporating all revisions up to and including the approved rules listed in the annexes to Circular Letter [CR/355](http://www.itu.int/md/R00-CR-CIR-0355/en) of 13 January 2014.

# 4 Study group activities

This topic is presented in an addendum to this document.

# 5 Results of PP-14 of direct interest to ITU‑R

The 2014 Plenipotentiary Conference (PP-14) took place in Busan, Republic of Korea, from 20 October to 7 November 2014. It was attended by 2,505 delegates from 171 countries – including 76 ministers, 36 deputy ministers and 56 ambassadors. The main results of direct interest to ITU‑R may be summarized as follows:

Mr François Rancy was re-elected as Director of the Radiocommunication Bureau.

The following 12 members of the Radio Regulations Board were elected/re-elected:

• Region A: Mr R.L. Terán (Argentina) and Ms J. Wilson (United States).

• Region B: Mr A. Magenta (Italy) and Ms L. Jeanty (Netherlands).

• Region C: Mr V. Strelets (Russian Federation) and Mr I. Khairov (Ukraine).

• Region D: Mr S.K. Kibe (Kenya), Mr S. Koffi (Côte d’Ivoire) and Mr M. Bessi (Morocco).

• Region E: Mr Y. Ito (Japan), Mr N. Bin Hammad (United Arab Emirates) and Mr D.Q. Hoan (Viet Nam).

For the first time since 1992, the conference made no amendments to the ITU Constitution and Convention.

The conference formally adopted ITU’s Strategic Plan 2016-2019 and the Financial Plan for the same period, including a new “Connect 2020” resolution that sets out a clear vision and shared objectives for the future of the ICT sector through measurable new statistical targets.

The Strategic Plan 2016-2019 sets out the following objectives for ITU‑R:

R.1 Meet, in a rational, equitable, efficient, economical and timely way, the ITU membership’s requirements for radio-frequency spectrum and satellite-orbit resources, while avoiding harmful interference

R.2 Provide for worldwide connectivity and interoperability, improved performance, quality, affordability and timeliness of service and overall system economy in radiocommunications, including through the development of international standards

R.3 Foster the acquisition and sharing of knowledge and know-how on radiocommunications

**Income and expenditure for the Union for the period 2016-2019:** Decision 5 was adopted, including its Annex 2, which includes an extensive list of measures for reducing expenditure. Some of the measures having a direct impact in ITU‑R’s work are the following:

– Identification and elimination of duplication (and overlap of functions, activities, workshops, seminars), and centralization of finance and administrative tasks, in order to avoid inefficiencies and to gain from a specialized workforce.

– The General Secretariat and the three Sectors of the Union should reduce the cost of documentation of conferences and meetings by conducting paperless events/meetings/ conferences and fostering the adoption of ICTs as viable and most sustainable substitutes for paper.

– Reducing to the absolute minimum necessary the printing and distribution of ITU promotional/non-revenue generating publications.

– Consideration of savings in languages (translation, interpretation) for study group meetings and publications, without prejudice to the goals of Resolution 154 (Rev. Busan, 2014).

– Evaluation and use of alternative translation procedures that could reduce the cost of translations while maintaining or improving their current quality and the accuracy of telecommunication/ICT terminology.

– Reviewing the number of study group meetings and their duration with a view to reducing their costs and those of other relevant groups.

– Limitation of the number of days of meetings for the advisory groups to three days per year maximum with interpretation.

– Taking into account No. 145 of the Convention, a full range of electronic working methods needs to be explored to possibly reduce the costs, number and duration of the Radio Regulations Board meetings in the future, e.g. reduction of the number of meetings in one calendar year from four to three.

– Discontinue to the greatest extent possible communications by fax and traditional postal mail between the Union and Member States and replace it with modern electronic communication methods.

– Appeal to the Member States to reduce the number of issues to be considered by WRCs to the minimum necessary.

**Access to documentation:** PP-14 agreed further to provide public access to all input and output documents of all conferences and assemblies of the Union starting from the beginning of 2015 “unless where disclosure would cause potential harm to a legitimate private or public interest that outweighs the benefits of accessibility.” Public access to all input and output documents does not cover documents of study groups, which will be subject to a policy on this issue to be approved by the Council.

**Scheduling of conferences and meetings of the Union:** the conference decided that there should be only one major ITU conference per year. The next RA/WRC will be in 2019.

**Admission of Academia to participate in the work of the Union:** PP-14 revised Resolution 169 to entitle Academia members to participate in the work of all 3 Sectors of ITU. In this regard, a single membership category for Academia replaces the previous membership categories per Sector (revised Resolution 169). A membership fee of CHF 3 975 for Academia from developed countries and of CHF 1 987.50 for those from developing countries gives access to all three Sectors.

In addition, Academia should also be invited to participate in other global and regional conferences, workshops and activities of the Union, with the exception of plenipotentiary conferences, world radiocommunication conferences, world conferences on international telecommunications and the Council, in conformity with the rules of procedure of the respective Sectors and taking into account the outcome of the review pursuant to Resolution 187 (Busan, 2014). As a consequence, it is proposed that Academia members be invited to attend the forthcoming radiocommunication assembly.

Finally, Resolution 169 (Rev. Busan, 2014) instructs the radiocommunication assembly, the world telecommunication standardization assembly and the world telecommunication development conference to mandate their respective Sector advisory groups to continue to study whether there is a need for any additional measures and/or arrangements to facilitate such participation that are not covered by relevant resolutions or recommendations of the above-mentioned assemblies and conference, and adopt such modalities, if they deem it necessary or required, and report the results through the Directors of the Bureaux to the Council.

**Global flight tracking for civil aviation:** Resolution 185 (Busan, 2014) instructs WRC‑15, pursuant to No. 119 of the ITU Convention, to include on its agenda, as a matter of urgency, the consideration of global flight tracking, including, if appropriate, and consistent with ITU practices, various aspects of the matter, taking into account ITU‑R studies, and instructs the Director of the Radiocommunication Bureau to prepare a specific report on the matter, as referred to in the *resolves* section of the resolution, for consideration by WRC‑15.

Immediately after the approval of Resolution 185 (Busan, 2014), the Director of BR sent a note to ITU‑R Working Parties 5B and 4C (see Doc. 4C/380, 5B/758) inviting them to complete, as a matter of urgency, the corresponding studies, including any guidance on possible courses of action to be taken by WRC‑15. More information on the status of the studies being carried out by WPs 5B and 4C can be found in Document [CPM15-2/7](https://www.itu.int/md/dologin_md.asp?id=R12-CPM15.02-C-0007!!MSW-E&SessionID=15610624968320151037933LL36208543Q6Z73EF&lang=en).

**Strengthening the role of ITU with regard to transparency and confidence-building measures in outer space activities:** Resolution 186 (Busan, 2014) resolves to encourage the dissemination of information, capacity building and the sharing of best practices in the use and development of radiocommunication satellite networks/systems, with the objectives of, *inter alia*, bridging the digital divide and enhancing the reliability and availability of the above-mentioned satellite networks/systems. It instructs the Director of BR to promote access to information, upon request by administrations concerned, related to satellite-monitoring facilities, in order to address cases of harmful interference in accordance with Article 15 of the Radio Regulations, as well as to continue taking action to maintain a database on cases of harmful interference reported in accordance with relevant provisions of the Radio Regulations and in consultation with Member States concerned.

**Strategy for the coordination of efforts among the three Sectors the Union:** A new resolution was approved – Resolution 191 (Busan, 2014) – aiming at ensuring the design of a coordination and cooperation strategy for effective and efficient efforts in areas of mutual interest to the three ITU Sectors, in order to avoid duplication of effort and optimize the use of resources. In this regard, a [liaison statement](http://www.itu.int/md/R12-SG05-C-0191/en) has been sent by ITU‑T Study Group 16 to all ITU‑R Study Groups indicating the topics covered by ITU‑R Study Groups and Working Parties in which they would be interested.

# 6 BR information system

6.1 RAG-19 (2012) advised the Director to implement recommended actions within the proposed time-frame, as described in the agreed roadmap, comprising: Phase 1 (Implementation of WRC‑12 decisions) up to 31 December 2012; Phase 2 (Rewrite some existing software) up to 31 December 2015; and Phase 3 (Set up a project team to implement a common framework, security system and centralized space database) from 1 January 2016 to 31 December 2018. RAG encouraged Member States and Sector Members to submit their comments on Phase 3.

The progress report on this topic is presented in Annex 2 to this document.

## 6.2 Website

• Migration to SharePoint of [ITU‑R website](http://www.itu.int/en/ITU-R) (English webpages) successfully achieved (354 pages), as illustrated in the table below:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | ITU‐R website SP migration status 22‐Dec‐14 | | | | | | |
| Total | | | Under production (www) | | | |
| Migrated | | To be migrated | |
| Pages | Archives\* | To migr. | Pages | % | Pages | % |
| SSD | Space | 108 | 0 | 108 | 108 | 100% | 0 | 0% |
| TSD | Terrestrial | 64 | 0 | 64 | 64 | 100% | 0 | 0% |
| SGD | Study Groups | 294 | 227 | 67 | 67 | 100% | 0 | 0% |
| Conf. | Conf./Meet./Sem./Wrksh. | 189 | 105 | 84 | 84 | 100% | 0 | 0% |
| Others | Info/Promo/Events/… | 83 | 52 | 31 | 31 | 100% | 0 | 0% |
| ITU‐R website (total) | | 738 | 384 | 354 | 354 | 100% | 0 | 0% |
| (\*) 384 archive pages (no update will/should be needed) ‐> can be “frozen” (fpweb publishing service will be stopped) | | | | | | | | |

• Translation 🡪 Translation of all webpages in levels 0 and 1 was requested by the Secretary-General. All ITU‑R webpages in level 0 are currently available in the 6 ITU languages; work on pages in level 1 is ongoing.

• Customized web parts for the dynamic data coming from SharePoint lists and external sources like databases/XML feeds 🡪 ongoing

## 6.3 Databases/developments:

• Database of oceanographic radars (beta version): [http://www.itu.int/en/ITU‑R/terrestrial/fmd/Pages/Res612-DB.aspx](http://www.itu.int/en/ITU-R/terrestrial/fmd/Pages/Res612-DB.aspx) (TIES restricted) 🡪 completed

• ITU‑R publications search tool (search by radio category, service, frequency range, …)  
🡪 ongoing

– 1st release (based on SQL Server programmability): [https://extranet.itu.int/ITU‑r/rsg/docs](https://extranet.itu.int/itu-r/rsg/docs) (frequency ranges are searchable through a stored procedure)  
🡪 completed, has been replaced by the “indexed” solution described below

– 2nd release (using SharePoint indexed metadata search engine capabilities): <https://extranet.itu.int/brdocsearch> (based on SharePoint term store)  
🡪 approved, ongoing

• Alignments of IPRs between ITU‑R/ITU‑T databases: [www.itu.int/ipr](http://www.itu.int/ipr) 🡪 ongoing

# 7 Correspondence groups

## 7.1 Electronic document handling

The RA formed the electronic document handling (EDH) correspondence group reporting to RAG as announced in [Administrative Circular CA/130](http://www.itu.int/md/R00-CA-CIR-0130/e). The coordinator of the correspondence group, Mr Jose Costa (CAN) will submit a progress report on EDH activities for consideration by RAG.

## 7.2 Review of Resolution ITU‑R 6

The correspondence group activity on this topic was concluded at the 19th meeting of RAG, with a draft revision of the resolution agreed to for submission to the RA. The Director was invited to review whether there were any inconsistencies between the proposed text for the revision of Resolution ITU‑R 6-1 and the text of Annex C to ITU‑T Resolution 18. That review has now been conducted and the result is presented in Annex 3 to this document for consideration by RAG.

## 7.3 Review of Resolution ITU‑R 1

At its twenty-first meeting, RAG established a correspondence group on the revision of Resolution ITU‑R 1-6. The chairman of the group, Mr Alexandre Vallet (FRA), will submit a report on the progress achieved by the group for consideration by RAG at the present meeting.

The outcome of the reviews of Resolutions ITU‑R 1 and ITU‑R 6 should be included in the report of the Chairman of RAG to RA-15.

# 8 Operational planning

Further to the approval of the strategic plan of the Union for 2016-2019 by PP-14, the ITU‑R Operational Plan has been structured based on a results-based management concept so as to ensure complete linkage with the budget and other financial tools of the Union.

The draft ITU‑R Operational Plan for the period 2016-2019 is presented in an addendum to this document, for review and comments by RAG.

It is important to note that the Bureau started its work on the security of the BR databases and related applications in relation to the following risks described in the “risks analysis” section of the ITU‑R Operational Plan:

– Total or partial loss of integrity of data in the MIFR or in any of the Plans, resulting in inadequate protection of the rights of administrations to use spectrum/orbit resources;

– Total or partial loss of operations in the processing of notices, resulting in delays in the recognition of rights of administrations to use spectrum/orbit resources and risks for the corresponding investments.

To this end, the Bureau adopted a two-phase approach (with both phases running in parallel) in order to identify and mitigate the relevant threats and vulnerabilities.

Phase 1: Databases security

With the help of external consultants hired for the purpose, namely BT Services, the Bureau conducted an assessment analysis of the infrastructure used in accessing the BR databases, both from inside and outside ITU, during the period from 01/04/2014 to 01/11/2014. This included:

i) Security configuration review of the databases, authentication and password policies;

ii) Security configuration and Internet access to the production servers;

iii) Network scans on the production servers from the internal network, data encryption, firewall traffic, remote desktop protocol (RDP), etc.

The consultants submitted their final report and recommendations on 01/12/2014. The overall assessment showed that the security level of the BR databases is acceptable. Ten significant vulnerabilities were identified, among which only tworepresented a high risk, and eight a medium risk for the studied perimeter.

Considering that the objective of BT was to provide a purely security-based point of view, which usually assumes that no system can be fully trusted or considered in complete independence from its environment, the Bureau proceeded with the follow-up on the BT report in conjunction with the consultants on one hand and the General Secretariat, namely the IS Department, on the other. This joint activity resulted in:

– Complete and immediate mitigation by IS/BR of the two high risk factors, through disabling of the faulty services and deployment of the appropriate security patches;

– Further consideration and analysis of the medium risk factors, in the context of the highly secure and reliable internal ITU blue LAN network, taking into account the fact that the BR databases exposed through the Internet are copies of the live databases used in accomplishing the Bureau’s day-to-day tasks and that the granting of access rights is role-based. As a consequence, all factors were found to be known and acceptable, and were downgraded to low or no risk.

Phase 2: Business continuity and disaster recovery (BC/DR) plan

In parallel with Phase 1, and in continuous cooperation with the SG/IS Department, the Bureau conducted its analysis and evaluation in order to establish the required BR/DC plan, so as to minimize both the risks of data loss and the delays associated with the risk of loss of operations in the processing of notices. To that end, the Bureau mainly established:

– Appropriate documentation describing the relevant tasks and providing exhaustive enumerations of the critical physical resources (file servers, database servers, WWW servers, software packages, etc.) needed to ensure continuity of operation

– Specific first-level and second-level backup strategy requirements, as well as preservation techniques for every resource (mirroring, checkpoints, etc.)

– Definitions of the “acceptable” minimum interruption of service intervals and delays to re-establish the minimal service and restore full operation, taking into account the Bureau’s statutory obligations.

Together with IS Department, the Bureau consequently established a BC/DR plan which fits the global IS strategy applied to the whole of ITU. A series of tests were conducted accordingly:

– File server backup and recovery procedures were successfully tested.

– Database backup and recovery procedures were successfully tested.

– The required time measurements were completed, identifying the need for several days to complete the full recovery procedure.

Work is continuing in this regard, and may require additional resources, to further reduce the time interval required for recovery. It is planned to simulate a disaster in the context of the worst case scenario previously defined in this document.

# 9 Information and assistance to membership

## 9.1 Technical assistance

The Bureau continues to fulfil its objective of informing and assisting the ITU membership, in particular the developing countries, on issues relating to radiocommunication matters. For this purpose, BR organizes and participates in a number of spectrum-related workshops, seminars, meetings and capacity-building activities. These actions are being carried out in close cooperation with BDT and the ITU regional and area offices, as well as the relevant international organizations and national authorities.

The Bureau continues to strengthen its cooperation with international and regional organizations (APT, ASMG, ATU, CEPT, CITEL and RCC) through its ongoing activities to ensure effective preparation for the upcoming WRC‑15.

GSR-14

Recognizing the importance of expert assistance to Member States, BR continues to support BDT with technical expertise on aspects related to spectrum management, digital broadcasting and digital dividend. The Bureau contributed to the ITU Global Symposium for Regulators 2014 (GSR-14, Bahrain), organizing a technical workshop on white spaces and dynamic spectrum access, which focused on discussing in detail the latest developments and emerging issues on this topic.

WTIS-14

The Bureau’s technical expertise continues to support BDT in the gathering of important ICT sector metric data, expanding on spectrum regulatory aspects through ITU’s ICT-Eye portal for data and statistics. Similarly, BR is constantly collaborating with BDT in its ongoing efforts to develop relevant ICT definitions for measuring the information society in areas specific to radiocommunications.

One key point for BR was to follow the developments in the gathering of statistical data on mobile broadband and advanced mobile networks coverage, as well as to provide expert support on the work involving the technology definitions used to collect these data. Additionally, there are a number of objectives in which BR’s technical role is required:

– Review and/or cooperate with BDT on the agreed terminology for gathering data on mobile broadband technologies, especially those items that make reference to standards.

– Follow the progress on data trends for the uptake of advanced mobile technologies and beyond.

– Identify key areas requiring further work on the collaboration with BDT for obtaining statistics from regulators, such as ICT-Eye surveys, also ensuring that the terminology is well aligned across the Sectors.

– Identify key areas of work in terms of assistance through observing statistical trends data, especially to strengthen those activities where developing regions may need support to expand the deployment of mobile broadband through key spectrum decisions.

Other events

The complete list of events in which BR participated in 2014 is provided in Annex 4.

## 9.2 Radiocommunication seminars

As a complement to the biennial world radiocommunication seminars (WRSs), BR organizes a yearly cycle of regional radiocommunication seminars (RRSs), which are held in different regions worldwide, fostering human capacity building on the use of the radio-frequency spectrum and satellite orbits and, in particular, the application of the provisions of the ITU Radio Regulations.

Regional radiocommunication seminars (RRSs)

Between April 2014 and April 2015, four RRSs were held, as follows:

RRS-14-Asia

Hosted by the Ministry of Information and Communications of Viet Nam (MIC), through the Viet Nam Authority of Radiocommunication Frequency Management (ARFM), in cooperation with the Asia-Pacific Telecommunity (APT). This seminar was held in Hanoi, Viet Nam, from 26 to 30 May 2014. It included a forum on “New Trends in Spectrum Management: Opportunities and Challenges”, with the participation of the main stakeholders in the region. Topics included: spectrum auctions, spectrum sharing and trading, dynamic spectrum access and white spaces.

The seminar was attended by **more than 80 participants from 13 countries in the Asia-Pacific region**; it was conducted in English, in a paperless environment.

RRS-14-Americas

This second and last RRS for the year 2014 was held in Scarborough, on the island of Tobago, Trinidad and Tobago, from 14 to 18 July 2014. The seminar was hosted by the Telecommunications Authority of Trinidad and Tobago (TATT) with the collaboration of the Caribbean Telecommunication Union (CTU). The event included a 3-day seminar followed by a 2-day forum on WRC‑15 preparation. In addition, an informal session was organized to inform administrations about the notification of earth stations, a procedure which is generally not applied in the region in spite of its mandatory nature. The event was attended by more than **60 participants from 27 countries, including 14 States from the Caribbean region (out of 16)**. It was conducted in English, in a paperless environment.

RRS-15-Eastern Europe and CIS

This seminar was held in Bishkek, Kyrgyz Republic, from 2 to 6 March 2015, hosted by the State Communications Agency – Kyrgyz Republic, in cooperation with RCC. The forum topics were WRC‑15 preparation, future use of the 700 MHz and 800 MHz bands, trends in mobile service technologies and digital broadcasting, harmful interference, nano- and picosatellites and methods of calculation of spectrum utilization fees.

RRS-15-Africa

This seminar was held in Niamey, Niger, from 20 to 24 April 2015, co-organized with the African Telecommunication Union and hosted by the *Autorité de Régulation des Télecommunications et des Postes* (ARTP). The forum topic was: “Emerging concepts in spectrum utilization and monitoring: Preparing for future spectrum management for the region”. The seminar was held in English and French, with simultaneous interpretation.

RRS-15-Asia-Pacific

This seminar will be held in Manila, Philippines, from 25 to 30 May 2015, hosted by ICTO in cooperation with APT. The forum topic will be “Satellite planned bands (regulatory and commercial approach)”. A regional workshop on satellite frequency coordination will also be held within the seminar. This seminar will be conducted in English.

RRS-15-Americas

This seminar will be held in San Salvador, El Salvador (tbc), in July 2015, in cooperation with COMTELCA and hosted by SIGET. The forum topic will be on the main challenges in the region for WRC‑15. It will be conducted in Spanish only.

WRS-14

In addition to the above-mentioned RRSs, a new edition of the world radiocommunication seminar (WRS-14) was held from 4 to 8 December 2014 in Geneva, Switzerland. In spite of difficulties for some administrations to fund their participation in both the plenipotentiary conference (October-November 2014) and WRS-14, the seminar was well attended with more than **350 participants, from 100 countries**.

The lectures and discussions during the seminar were in the six official languages of ITU (English, Arabic, Chinese, Spanish, French and Russian) with simultaneous interpretation. The workshops were held in separate groups in accordance with the language requirements and available facilities: English for terrestrial, English and French for space. Diverse BR staff, together speaking all six ITU languages, were assigned to the workshops, attending requests in any of the six languages. WRS‑14 was conducted in a paperless environment, i.e. seminar proceedings were made available on the website; a USB key was also issued to every participant, with presentations, databases and tools, and other relevant documents and information. Given the amount of practical work during the workshops, participants were asked to bring their laptops. This paperless strategy was successful with no reported inconveniences related to IT aspects.

Planned WRS & RRS cycle for 2016-2019

The world and regional radiocommunication seminars planned for the 2016-2019 cycle are presented in Annex 5.

# 10 Statistics on Sector Members, Associates and Academia

# A Sector Members

The table below shows the evolution of ITU‑R Sector Members from 1 April 2014 to 31 March 2015; there were 13new Sector Members and 2 Sector Member denunciations.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SECTOR MEMBERS** | | | | | |
|  | **01/04/2014** | **30/06/2014** | **30/09/2014** | **31/12/2014** | **31/03/2015** |
| ***Existing*** |  | 258 | 259 | 259 | 265 |
| ***New*** | 2 | 0 | 6 | 5 |
| ***Denunciations*** | 1 | 0 | 0 | 1 |
| **Total** | **258** | **259** | **259** | **265** | **269** |

New Sector Members  
1 April 2014 to 31 March 2015   
(ITU‑R Sector Members)

|  |  |
| --- | --- |
| **Sector Member** | **Country** |
| Ogero (1/2 Unit) | Lebanon |
| Chuan Wei (1/16 Unit) | Cambodia |
| ABS (1/2 Unit) | United States |
| Huawei Technologies (1/2 unit) | Sweden |
| Measat Satellite (1/2 Unit) | Malaysia |
| Association for progressive Communications (0 Unit) | South Africa |
| Communauté Économique des Etats de l’Afrique Centralle (0 Unit) | Gabon |
| Associaçao Internacional des Communicaçoes de Expressão Portuesa (0 Unit) | Portugal |
| Confindustria Radio Televisioni (1/2Unit) | Italy |
| DFG Holdings Limited (1/2 Unit) | United Kingdom |
| European Satellite Operators Association (1/2 Unit) | Belgium |
| WorldVu Satellites, Ltd (1/2 Unit) | United Kingdom |
| Google Inc., (1/2 Unit) | United States |

Denunciations of Sector Members  
1 April 2014 to 31 March 2015  
(ITU‑R Sector Members)

|  |  |  |  |
| --- | --- | --- | --- |
| **Sector Member** | **Country** | **Effective date of the denunciation** | **Reasons** |
| Joint Stock Telecommunications Company (1/2 unit) | Serbia | 30/04/2014 | *Structural changes* |
| Vodafone GmbH (1/2 unit) | Germany | 28/02/2015 | *Structural changes* |

# B Associates

The table below shows the evolution of ITU‑R Associates from 1 April 2014 to 31 March 2015: there were three new Associates, and two denunciations.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ASSOCIATES** | | | | | |
|  | **01/04/2014** | **30/06/2014** | **30/09/2014** | **31/12/2014** | **31/03/2015** |
| ***Existing*** |  | 20 | 19 | 20 | 19 |
| ***New*** | 0 | 1 | 0 | 2 |
| ***Denunciations*** | 1 | 0 | 1 | 0 |
| **Total** | **20** | **19** | **20** | **19** | **21** |

New Associates   
1 April 2014 to 31 March 2015  
(ITU‑R Associates)

|  |  |
| --- | --- |
| **Associates** | **Country** |
| Communications Regulatory Authority (1/6 Unit) | Qatar |
| MStar Semiconductor, Inc.(1/6 Unit) | France |
| CRFS Limited (1/6 Unit) | United Kingdom |

Denunciations of Associates  
1 April 2014 to 31 March 2015  
(ITU‑R Associates)

|  |  |  |  |
| --- | --- | --- | --- |
| Associate | Country | Effective date of the denunciation | Reasons |
| AURO Technologies (1/6 unit) | Belgium | 29/05/2014 | *No reason* |
| 7Layers AG (1/6 unit) | Germany | 12/06/2014 | *Structural change* |

# C Academia

The table below shows the evolution of ITU‑R Academia from 1 April 2014 to 31 March 2015: there were 21 new Academia and noAcademiadenunciations.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ACADEMIA** | | | | | |
|  | **01/04/2014** | **30/06/2014** | **30/09/2014** | **31/12/2014** | **31/03/2015** |
| ***Existing*** |  | 15 | 15 | 25 | 31 |
| ***New*** | 0 | 10 | 6 | 5 |
| ***Denunciations*** | 0 | 0 | 0 | 0 |
| **Total** | **15** | **15** | **25** | **31** | **36** |

New Academia Members  
1 April 2014 to 31 March 2015  
(ITU‑R Academia)

|  |  |
| --- | --- |
| Academia | Country |
| Universidad de Buenos Aires, Universidad Nacional de San Luis, Universidad Nacional Arturo Jauretche, Universidad Nacional del Sur, Universidad Nacional de Córdoba, Instituto Nacional de Tecnología Industrial, Instituto Nacional de la Matanza, Universidad de la Plata, Universidad Tecnológica Nacional (1/32 unit per university). Total of 9 universities | Argentina |
| Bergen University College (1/16 unit) | Norway |
| Université de Genève (1/16 unit) | Switzerland |
| EPFL (1/16 unit) | Switzerland |
| Ecole Supérieure Privée d’Ingénierie et de Technologies (1/32 unit). | Tunisia |
| The University of Electro-Communications (1/16 unit) | Japan |
| Universidad Nacional de Avellaneda (1/32 unit) | Argentina |
| Universidad Nacional de Rionegro (1/32 unit). | Argentina |
| Universidad Nacional de Luján (1/32 Unit). | Argentina |
| Keio University (1/16 Unit) | Japan |
| Amity Institute of Telecom Engineering & Management, Amity University (1/32 Unit) | India |
| Universidad de Costa Rica (1/32 unit) | Costa Rica |
| Instituto Tecnológico de Costa Rica (1/32 Unit) | Costa Rica |

The following graph shows the evolution of Sector Members, Associates and Academia during the period 1 April 2014 to 31 March 2015.

# 11 Promotion and media relations

Communication, promotion and media

Effective communication plans were developed to advise on upcoming ITU‑R events, breaking technical news, new publications, Recommendations and Reports and other pertinent information that should be effectively communicated to the world.

As indicated in section 6 of this report, throughout 2014 a continuous migration of the [ITU‑R website](http://www.itu.int/en/ITU-R) to SharePoint was undertaken with total re-design following new inter-Sector web-template guidelines and with upgrade from SharePoint 2010 to SharePoint 2013. In so far as possible, online resources are made available in the six official languages of ITU (Arabic, Chinese, English, French, Russian and Spanish).

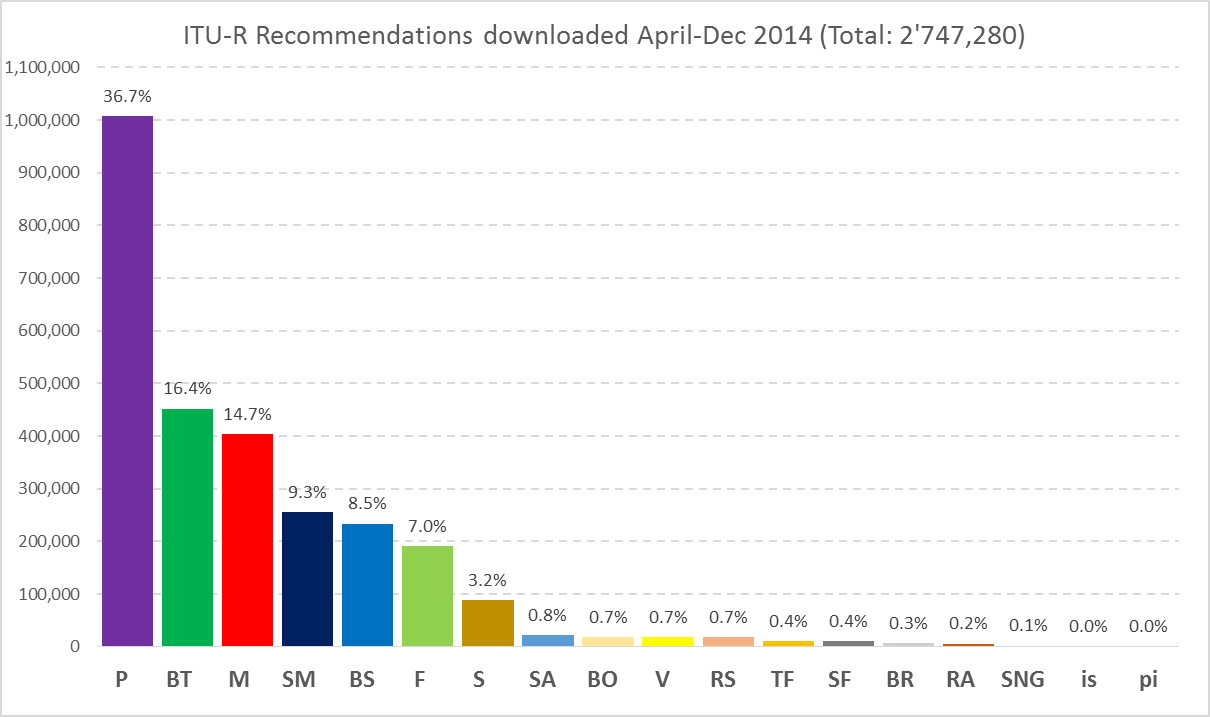
**Annexes:** 5

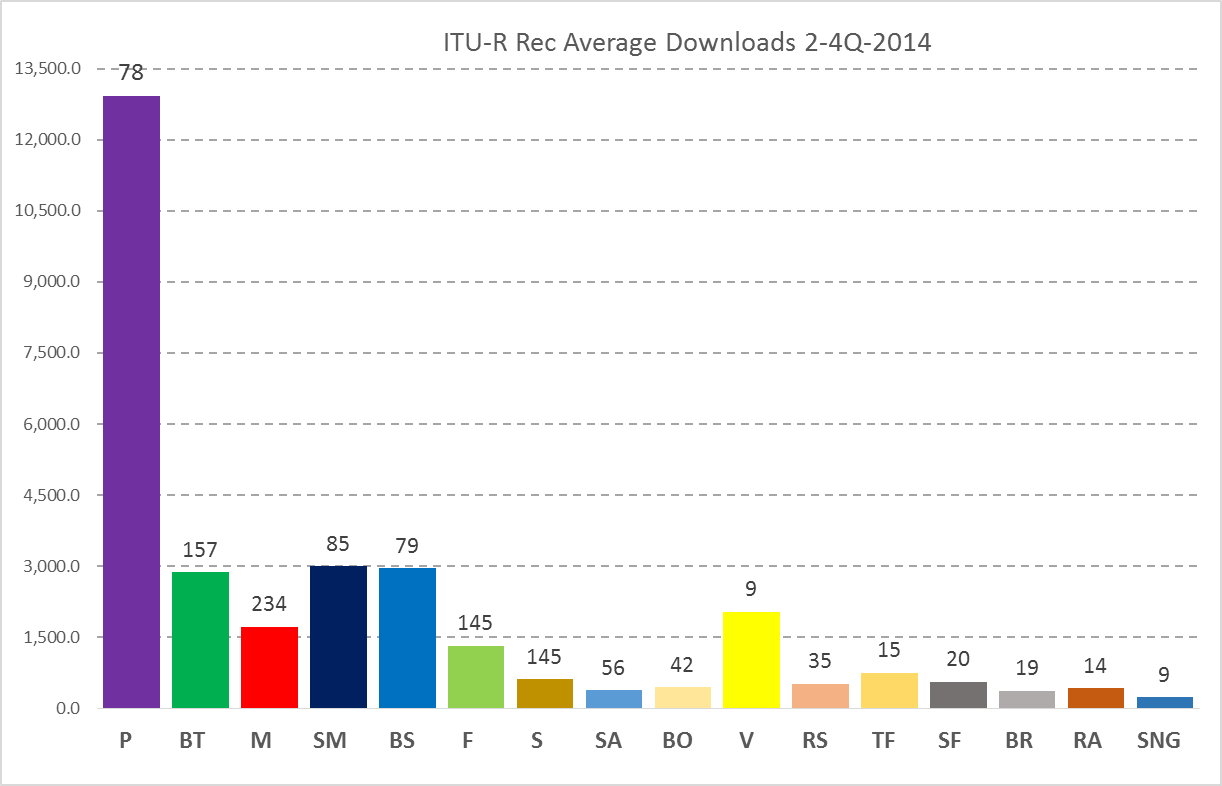
Annex 1

Analysis of the number of downloads of ITU‑R Recommendations and Reports

ITU‑R Recommendations

Thanks to the free online access policy, ITU‑R Recommendations have been disseminated worldwide, becoming a universal reference, reaching all audiences regardless of their economic situation; over a 12-month period (April 2014 to March 2015) almost 3 million downloads (from the ITU website) were registered. The following figures show their distribution by series, both for total number of downloads and average value of downloads per series (estimated by number of downloads/number of Recommendations in force):





– The first tier corresponds solely to the Propagation Series (P), with roughly 37% (more than double the following series). This indicates the worldwide reference status of this ITU‑R series.

– The second tier is shared by the TV Broadcasting (BT) and Mobile (M) Series, with roughly 15% each, showing also the extensive worldwide recognition of these series.

– The third tier is shared by the series on Spectrum Management (SM), Sound Broadcasting (BS) and Fixed Services (F), with roughly 8% each.

– The fourth tier corresponds to fixed-satellite services, with roughly 3%.

– The last tier comprises the remaining 11 series, representing the remaining 6%.

However, considering that ITU‑R Recommendations (1142 in force) are unevenly distributed by series, a complementary analysis was made for the average number of downloads per series, estimated as: number of series downloads/number of series Recommendations in force. Additional conclusions obtained from these figures are:

• The order of the series does not change significantly, with a few exceptions as explained below.

• P Series: in total amount, this series represents a ratio of 2.5: 1 in relation to the subsequent tier, but when considering average value, the ratio increases to 4.5:1. This shows the very high relevance of the P Series for the spectrum community.

• The M and BS Series show similar values to BT, which is the second largest group.

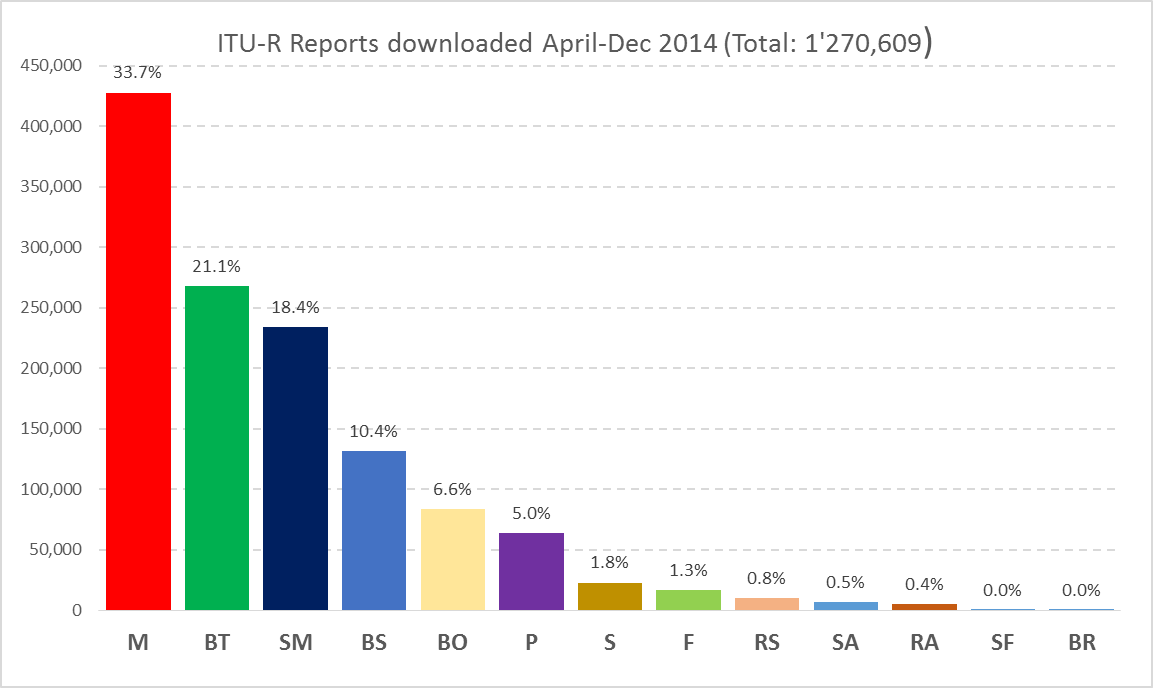
• The M Series shows a relative reduction, to levels similar to the F Series.

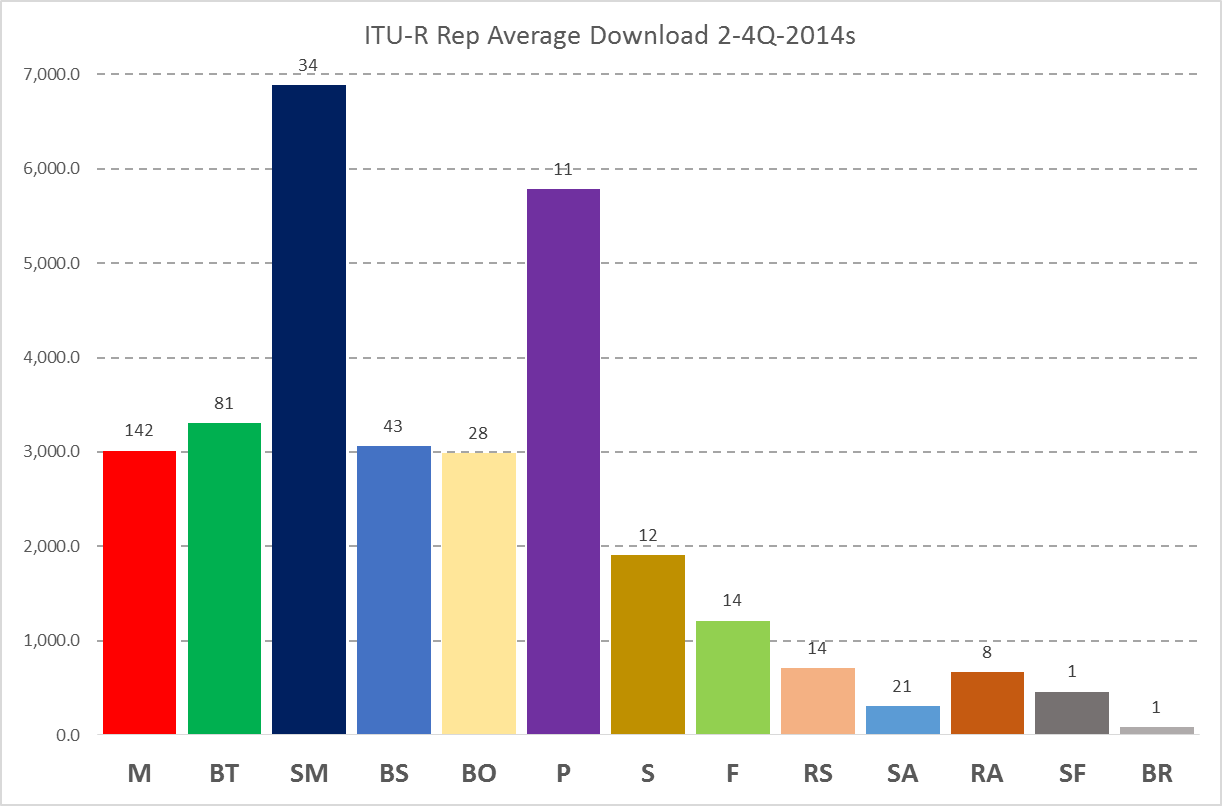
• The V Series shows a significant average value.

ITU‑R Reports

ITU‑R Reports depict an impact similar to ITU‑R Recommendations, with nearly 1.3 million downloads. It is to be noted that although the value of ITU‑R Reports is slightly less than 50% of that of ITU‑R Recommendations, there are 410 ITU‑R Reports in force (nearly 36% less); the average number of downloads of Reports is almost 3 000, while that of Recommendations is around 2 500.

A similar analysis is made for ITU‑R Report downloads:





– The first tier corresponds solely to Mobile (M) with roughly 34%.

– The second tier is shared by TV Broadcasting (BT) and Spectrum Management (SM), with roughly 20% each.

– The third tier is Sound Broadcasting with roughly 10%.

– The fourth tier corresponds to Satellite Delivery (BO) and Propagation (P), with roughly 6% each.

– The fifth tier corresponds to Fixed-Satellite and Fixed, having each roughly 1.5%.

– The last tier comprises the remaining 5 series, representing the remaining 1%.

When considering the number of Reports per series, the main conclusions are:

– The order of the series changes significantly; additionally:

• The M Series becomes the most relevant average-download series, nearly doubling the second tier; the P Series also becomes very relevant

• The second tier (average value around 50% of P Series) is shared by: M, BT, BS, BO

• The third and fourth tiers correspond to F and S.

Annex 2

|  |
| --- |
| BR Space Information Systems Progress Report |
| Phase 2: 1 April 2012 – 30 December 2015 |
| ***Resolution 908 –*** Development and testing of a web application for online submission and publication of advance publication subject to coordination and comments under No. 9.5B.  (SpaceWisc (Space Web Interface for Secure Communication)).  The design and testing of SpaceWisc has been a team effort between BR/IAP/SAS developers and engineers in BR/SSD.  In addition to efforts made to ensure that the SpaceWisc application is user friendly and easy to use, as per the recommendation of RAG, online help, how-to videos and a SpaceWisc forum are also provided.  A beta version of the SpaceWisc application was released for testing by administrations during the BR seminar in Geneva in December 2014 (WRS-14).  The application will be put into production on 1 March 2015. For more information, see ITU‑R CR/376. |
| ***Resolution 907 –*** Develop a new [web] application which will provide administrations with means to submit and receive correspondence to and from BR including satellite filings in a secure environment.  Work on this web application will start immediately after the release of the production version of the SpaceWisc application.  The experience gained in the implementation of Resolution 908 will be very valuable for the development of Resolution 907. The Sharepoint 2013 environment and security developed for the Resolution 908 SpaceWisc project will be the basis for the Resolution 907 project. |
| ***Business Continuity and Disaster Recovery***[[3]](#footnote-3) – We are focusing on ensuring that all existing applications can be maintained and that the knowledge of the notice processing software and procedures is shared by several individuals.  A task group is developing a plan to test our backup and recovery procedures. It listed our core software applications and data, extracted data categories (databases, files…) and created a disaster recovery plan for each category. These plans have been tested. We are now entering a maintenance phase during which the list of data should be updated and the recovery plans tested regularly. |
| ***Rewrite technical legacy software for technical examination –*** Ongoing  • Rewrite PFD for protection of terrestrial services calculation: ongoing  • Rewrite AP8 calculation: started  • Rewrite PFD for protection of space services: should start this year  • Migrate technical examination software written in Fortran from Compaq Visual Fortran compiler to Intel Fortran compiler  – GIBC/Appendix 30B, Mspace, GIBC/PowerControl: completed  – GIMS Fortran components: not yet started  • Mspace – migration of data access component from VB6 to Intel Fortran completed  • GIBC/Appendix 7 to be completed in 2015 |
| ***Design and develop the BR Space Information System (BR SIS) –*** currently, BR Space has many standalone applications written in VB6 and VO with their own specific interfaces. The aim is to build one single user interface that will integrate in the future all BR Space services using state-of-the-art technologies.  This task has been initiated and the proposed architecture validated with a prototype based on service-oriented architecture (SOA). The SOA separates the user interface from the service implementation. Each BR Space application will be exposed as an autonomous WCF (Windows Communication Foundation) service and could easily be deployed across both Windows and web platforms. WPF (Windows Presentation Foundation) technology, the leading modern user interface (UI) design tool, is being used for the design and development of the UI. WPF separates the presentation design layer from the logic layer.  The whole system uses a composite application design pattern (Prism is the Composite Application Guidance for WPF). This improves the system modularity and allows developers to build and maintain system modules independently.  SpaceQry will be the first application rewritten in the *BR Space Information System* following the above architecture and will be used as a template for development of all BR Soft applications. The querying service developed for SpaceQry may also be used by the future SNS Online as a web service. |
| ***Rewrite SpaceQry written in Visual Objects***  A beta version has been made available and demonstrated during the BR seminar held in Geneva in December 2014 (WRS-14).  Internal users are still testing the application.  The latest beta version can be downloaded from the ITU website ([http://www.itu.int/en/ITU‑R/software/Pages/brsis.aspx](http://www.itu.int/en/ITU%1eR/software/Pages/brsis.aspx)). |
| ***Rewrite SpaceCap***  Integration of SpaceCap into BR-SIS has started and will be achieved by integrating one type of notice at a time. |
| ***Migrate SRS.mdb to SQL Server localdb –*** Owing to a Microsoft Access space limitation, we are looking into migrating the SRS.mdb to a new container such as SQL Server localdb or SQLite.  Tests have been done with existing software and we have decided to migrate the SRS.mdb to SQL Server localdb instead of SQLite because of problems encountered updating the database using the ODBC driver for SQLite (the current BR software applications use ODBC to connect to different database sources).  We are working on transferring data from our Ingres SNS database to an SQL Server localdb version of the SRS. This database is being tested and reviewed internally.  SQL Server localdb can only be used on Windows 7 and higher, so initially we may distribute the srs.mdb as 2 mdbs for users who still use Windows XP.  Using the BR Space SQL Server localdb does not require the installation of the SQL Server management system; however, users may download and install SQL Server 2012 Express free of charge from the Microsoft website. |
| ***Migrate SNS database on Ingres to SQL Server –*** Owing to costs and resources, the IS Department is migrating its Ingres databases to SQL Server, therefore the BR Space SNS database should also be migrated.  The work already done to transfer data from Ingres to SQL Server localdb can be used to migrate the SNS Ingres database to an SQL Server database.  No major changes would be required to BR Space Applications using ODBC to access the database.  SNS Online would need to be redone. In the interim, we could copy the SNS data from the SQL Server to an SNS database on Ingres.  The so-called “Merge” program used for processing modifications of satellite filings would have to be rewritten.  Owing to resource constraints and the upcoming WRC‑15 conference, we do not foresee completing this migration before the end of the post-conference work. |
| ***Review SNS Online –*** To be reviewed with the possibility of using the new querying service (SpaceQry) that will be implemented in the *BR Space Information System.* |
| ***Review SNTrack –*** This task should be done in conjunction with the development of Resolutions 907 and 908. The experience gained in creating Sharepoint workflows will be useful in this task. |
| ***Consider rewriting the merge –*** Migration of the database from Ingres to the SQL Server may make it necessary to redo the merge in 2014. Two engineers are now working on documenting the current “Merge” application. Meetings between developers and users have been initiated to review the notice processing flow. |

Annex 3

RESOLUTION ITU‑R 6-1

Liaison and collaboration with the ITU   
Telecommunication Standardization Sector

(1993-2000)

The ITU Radiocommunication Assembly,

considering

*a)* that the Radiocommunication (ITU‑R) Study Groups are charged to focus on the following in the study of Questions assigned to them:

“*a)* use of the radio-frequency spectrum in terrestrial and space radiocommunications and of the geostationary-satellite and other satellite orbits;

*b)* characteristics and performance of radio systems;

*c)* operation of radio stations;

*d)* radiocommunication aspects of distress and safety matters;” (Article 11 of the ITU Convention, Nos. 151 to 154);

*b)* that the Telecommunication Standardization (ITU‑T) Study Groups are charged to:

“... study technical, operating and tariff questions and prepare recommendations on them with a view to standardizing telecommunications on a worldwide basis, including recommendations on interconnection of radio systems in public telecommunication networks and on the performance required for these interconnections;” (Article 14 of the Convention, No. 193);

*c)* that the two Sectors were given the responsibility of jointly agreeing on the assignment of studies and to keep the division of studies constantly under review (Nos. 158 and 195 of the Convention);

*d)* that the initial allocation of work between ITU‑T and ITU‑R has been completed,

considering further

Resolution 16 of the Plenipotentiary Conference (Rev. Minneapolis, 1998),

noting

that Resolution 18 of the World Telecommunication Standardization Assembly (Montreal, 2000) provides mechanisms for ongoing review of the allocation of work and cooperation between the ITU‑R and ITU‑T Sectors,

resolves

1 to refer to the Radiocommunication Advisory Group in collaboration with the Telecommunication Standardization Advisory Group, the continuing review of new and existing work and its distribution between the two Sectors, for approval by Members in accordance with the procedures laid down for the approval of new or revised Questions taking into account the activities and results of the ongoing restructuring efforts within ITU;

2 that the principles for the allocation of work to the Radiocommunication Sector and Telecommunication Standardization Sector (see Annex 1) should be used to give guidance in the allocation of work to the Sectors;

3 that, if considerable responsibilities in both Sectors in a particular subject are identified, either:

*a)* the procedure as given in Annex 2 should be applied, or

*b)* a joint meeting may be arranged by the Directors, or

*c)* the matter should be studied by relevant Study Groups of both Sectors with appropriate coordination (see Annex 3 and Annex 4),

invites

the Directors of the Radiocommunication and Telecommunication Standardization Bureaux to strictly observe the provisions of *resolves* 3 and to identify ways and means of strengthening this cooperation.

Annex 1

Principles for the allocation of work to the Radiocommunication and Telecommunication Standardization Sectors

[NO CHANGE]

Annex 2

Procedural method of cooperation

[NO CHANGE]

Annex 3

Coordination of the radiocommunication and telecommunication standardization activities through Intersector Coordination Groups

With respect to *resolves* 3*c)* the following procedure shall be applied when two or more Study Groups of the two ITU Sectors are concerned in the same aspects of a specific technical subject:

a) the joint meeting of the advisory groups as indicated in *resolves* 1, may, in exceptional cases, establish an Intersector Coordination Group (ICG) to coordinate the work of both Sectors and to assist the advisory groups in coordinating the related activity of their respective Study Groups;

b) the joint meeting shall, at the same time, nominate the Sector which will be leading in the work;

c) the mandate of each ICG shall be clearly defined by the joint meeting, based on the particular circumstances and issues at the time the group is established; the joint meeting shall also establish a target date for termination of the ICG;

d) the ICG shall designate a Chair and a Vice-Chair, one representing each Sector;

e) the ICG shall be open to Members of both Sectors in accordance with Nos. 86 to 88 and 110 to 112 of the Constitution;

f) the ICG shall not develop Recommendations;

g) the ICG shall prepare reports on its coordinating activities to be presented to each Sector’s Advisory Group; these reports shall be submitted by the Directors to the two Sectors;

h) an ICG may also be established by the Radiocommunication Assembly or by the World Telecommunication Standardization Assembly following a recommendation by the advisory group of the other Sector;

j) the cost of an ICG shall be supported by the two Sectors on an equal basis and each Director shall include in the budget of his Sector, budgetary provisions for such meetings.

Annex 4

Coordination of the radiocommunication and telecommunication standardization activities through Intersector Rapporteur Groups

With respect to *resolves* 3*c)* the following procedure shall be applied when work on a particular subject could be best performed by bringing together technology experts from the concerned Study Groups or Working Parties of the two ITU Sectors to cooperate on a peer-to-peer basis in a technical group:

a) the concerned Study Groups or Working Parties in the two Sectors may, in special cases, agree by mutual consultation to establish an Intersector Rapporteur Group (IRG) to coordinate the work of their Study Groups or Working Parties on some specific technical issue, informing TSAG and RAG of this action through a liaison statement;

b) the concerned Study Groups or Working Parties in the two Sectors shall, at the same time, agree on clearly defined terms of reference for the IRG, and establish a target date for completion of the work and termination of the IRG;

c) the concerned Study Groups or Working Parties in the two Sectors shall also designate the Chairman (or co-Chairmen) of the IRG, taking into account the requested specific expertise and ensuring equitable representation of all the concerned Study Groups or Working Parties in each Sector;

d) being a Rapporteur Group, the IRG shall be regulated by the provisions applicable to Rapporteur Groups in Resolution ITU-R 1-6 and in Recommendation ITU-T A-1; participation is limited to members of ITU-T and ITU-R;

e) in fulfilling its mandate, an IRG may develop draft new Recommendations or draft revisions to Recommendations, as well as draft new Reports or draft revisions to Reports, to be submitted to its parent Study Groups or Working Parties for further processing as appropriate;

f) the results of the IRG's work should represent the agreed consensus of the Group or reflect the diversity of views of the participants in the Group;

g) an IRG shall also prepare reports on its activities, to be submitted to each meeting of its parent Study Groups or Working Parties;

h) an IRG shall normally work by correspondence or through teleconference, however it may occasionally take the opportunity of meetings of its parent Study Groups or Working Parties, to hold short face-to-face concurrent meetings, if this is feasible without support by the Sectors.

Annex 4

List of events in which BR participated in 2014

| Title | | Start | | End | Place |
| --- | --- | --- | --- | --- | --- |
| Specialized UN Agencies | | | | | |
| UNIDROIT - 2nd session of the Space Protocol Preparatory Commission | | 27/01/14 | | 28/01/14 | Rome |
| UN COPUOS - 51st session Scientific and Technical Subcommittee | | 17/02/14 | | 21/02/14 | Vienna |
| WMO Steering Group on Radio-Frequency Coordination (SG-RFC) | | 11/03/14 | | 13/03/14 | Boulder |
| 30th meeting of ICAO Aeronautical Coms. Panel WG-F | | 11/03/14 | | 19/03/14 | Pattaya |
| IISL-ECSL Space Law Symposium | | 24/03/14 | | 24/03/14 | Vienna |
| UN COPUOS 53rd session Legal Subcommittee (LSC-14) + STS-14 Workshop | | 24/03/14 | | 29/03/14 | Vienna |
| ITU/ICAO/Malaysia - Expert Dialogue Real-Time monitoring Flight data | | 26/05/14 | | 27/05/14 | Kuala Lumpur |
| UNIDROIT meeting at SES on Space Protocol | | 27/05/14 | | 27/05/14 | Luxembourg |
| 19th meeting ICAO European Frequency Management Group (FMG) | | 10/06/14 | | 13/06/14 | Paris |
| 57th Session UN COPUOS | | 16/06/14 | | 20/06/14 | Vienna |
| 1st IMO NCSR (Navigation, Communications, Search, Rescue) | | 30/06/14 | | 04/07/14 | London |
| UNIDROIT - 3rd session of the Space Protocol Preparatory Commission | | 11/09/14 | | 12/09/14 | Rome |
| 31st meeting of ICAO Aeronautical Coms. Panel WG-F | | 06/10/14 | | 10/10/14 | Seattle |
| 10th Meeting of IMO/ITU Joint Experts Group | | 06/10/14 | | 10/10/14 | London |
| UN/Mexico Symposium on Basic Space Technology | | 20/10/14 | | 23/10/14 | Ensenada (MEX) |
| WMO Steering Group on Radio-Frequency Coordination (SG-RFC) | | 17/11/14 | | 19/11/14 | Geneva |
| 5th Session WMO Inter-Program Coord. Team on Space Weather (ICTSW) | | 24/11/14 | | 24/11/14 | Ispra |
| 20th meeting ICAO European Frequency Management Group (FMG) | | 01/12/14 | | 05/12/14 | Brussels |
| Regional telecommunication organizations | | | | | |
| 4th CEPT CPG PT-A Meeting | | 08/01/14 | | 10/01/14 | Mainz |
| 5th CEPT CPG PT-D Meeting | | 13/01/14 | | 17/01/14 | Rome |
| ATU 2nd African Preparatory Meeting for WRC-15 | | 27/01/14 | | 31/01/14 | Khartoum |
| 4th CEPT CPG PT-C Meeting | | 28/01/14 | | 31/01/14 | Mainz |
| 9th CTO Annual Digital Broadcasting Switchover Forum (Africa 2014) | | 11/02/14 | | 13/02/14 | Arusha (Tanzania) |
| 4th CEPT CPG PT-B Meeting | | 04/03/14 | | 06/03/14 | Copenhagen |
| XXIII Meeting of CITEL PCC.II | | 17/03/14 | | 21/03/14 | Cartagena |
| 16th Meeting APT Wireless Group (AWG-16) | | 18/03/14 | | 21/03/14 | Pattaya-Chonburi |
| 4th CEPT CPG Meeting for WRC-15 | | 25/03/14 | | 28/03/14 | Riga |
| 5th CEPT CPG PT-A Meeting | | 07/04/14 | | 10/04/14 | Noordwijk |
| 5th CEPT CPG PT-C Meeting | | 08/04/14 | | 11/04/14 | Amsterdam |
| 4th meeting RCC WG on preparations of RA-15/WRC-15 | | 14/04/14 | | 16/04/14 | Minsk |
| 5th meeting RCC Comm. Regulation Use Radio-Frequency Spectrum & Satellite Orbits | | 17/04/14 | | 18/04/14 | Minsk |
| 6th CEPT CPG PT-D Meeting | | 28/04/14 | | 02/05/14 | Luxembourg |
| WBU-ISOG Forum | | 29/04/14 | | 01/05/14 | Tokyo |
| 80th CEPT WG FM Meeting | | 26/05/14 | | 30/05/14 | Trondheim |
| Inaugural Training Workshop for APT Prep. Group for WRC-15 | | 06/06/14 | | 07/06/14 | Brisbane |
| 3rd Meeting APT Conference Preparat. Group for WRC-15 (APG15-3) | | 09/06/14 | | 13/06/14 | Brisbane |
| 12th Meeting CEPT/ECC FM Maritime Forum Group (MARFG) | | 17/06/14 | | 19/06/14 | Copenhagen |
| ATU 2nd Preparatory meeting for PP-14 | | 05/07/14 | | 08/07/14 | Harare |
| 49th session Board of RCC and 20th session Coord. Council CIS | | 15/07/14 | | 16/07/14 | Astana |
| CITEL 2nd Preparatory meeting for PP-14 | | 05/08/14 | | 08/08/14 | Asuncion |
| APT 4th Preparatory meeting for PP-14 | | 19/08/14 | | 22/08/14 | Bangkok |
| ATU 2nd Meeting of African Spectrum Working Group (AfriSWoG-20 | | 26/08/14 | | 29/08/14 | Nairobi |
| 7th CEPT CPG PT-D Meeting | | 01/09/14 | | 05/09/14 | Zagreb |
| 16th CEPT Meeting FM49 | | 02/09/14 | | 03/09/14 | Copenhagen |
| 13th Meeting CEPT/ECC FM Maritime Forum Group (MARFG) | | 09/09/14 | | 11/09/14 | Bonn |
| 5th CEPT CPG PT-B Meeting | | 09/09/14 | | 12/09/14 | Copenhagen |
| CEPT 6th Preparatory meeting for PP-14 | | 15/09/14 | | 15/09/14 | Berlin |
| 6th CEPT CPG PT-C Meeting | | 16/09/14 | | 19/09/14 | Copenhagen |
| 17th Meeting APT Wireless Group (AWG-17) | | 23/09/14 | | 26/09/14 | Macao |
| 5th CEPT CPG Meeting for WRC-15 | | 23/09/14 | | 26/09/14 | Marseille |
| XXIV Meeting of CITEL PCC.II | | 29/09/14 | | 03/10/14 | Merida (MEX) |
| 11th Resolution 609 Meeting | | 12/10/14 | | 15/10/14 | Shenzhen (China) |
| 81st CEPT WG FM Meeting | | 06/10/14 | | 10/10/14 | Sophia Antipolis |
| 17th CEPT Meeting ECC FM PT49 | | 11/11/14 | | 12/11/14 | Helsinki |
| ETSI 64th General Assembly | | 18/11/14 | | 19/11/14 | Sophia Antipolis |
| In Case of Emergency… An ETSI Summit on Critical Communications | | 20/11/14 | | 20/11/14 | Sophia Antipolis |
| ATU 3rd African Preparatory Meeting for WRC-15 | | 24/11/14 | | 28/11/14 | Abuja |
| 6th meeting RCC Comm. Regulation Use Radio-Frequency Spectrum & Satellite Orbits | | 02/12/14 | | 06/12/14 | Astana |
| ETSI Workshop on Reconfigurable Radio Systems | | 03/12/14 | | 04/12/14 | Sophia Antipolis |
| ATU/Eutelsat/Côte d’Ivoire - Seminar on transition in West Africa | | 15/12/14 | | 16/12/14 | Abidjan |
| Non-ITU conferences and symposiums (NIC) | | | | | |
| HFCC/ASBU/ABU-HFC - 10th Global Shortwave Coord. Conf. A14 HFBC | | 20/01/14 | | 24/01/14 | Kuala Lumpur |
| Ceremony of the World Radio Day and WRD Committee | | 13/02/14 | | 14/02/14 | Paris |
| GSMA Mobile World Congress (MWC-2014 ) | | 24/02/14 | | 27/02/14 | Barcelona |
| DVB World Conference | | 10/03/14 | | 12/03/14 | Prague |
| Satellite 2014 | | 10/03/14 | | 13/03/14 | Washington DC |
| GVF CABSAT 2014 | | 12/03/14 | | 13/03/14 | Dubai |
| The Munich Satellite Navigation Summit 2014 - Legal Session | | 26/03/14 | | 26/03/14 | Munich |
| ICANN 49 Meeting | | 26/03/14 | | 27/03/14 | Singapore |
| IAFI - 10th Year Celebration and Preparatory Workshop on WRC-15 | | 27/03/14 | | 28/03/14 | New Delhi |
| 4th IUCAF School on Spectrum Management for Radio Astronomy | | 07/04/14 | | 13/04/14 | Santiago de Chile |
| PITA - 18th Annual General Meeting (AGM) | | 07/04/14 | | 11/04/14 | Port Vila (Vanuatu) |
| 11th FRATEL Seminar | | 15/04/14 | | 16/04/14 | Dakar |
| Manfred Lachs International Conference on Global Space Governance | | 29/05/14 | | 31/05/14 | Montreal |
| GLAC-2014 (Global Space Application Conference) | | 02/06/14 | | 04/06/14 | Paris |
| 8th European Conf. on Antennas & Propagation (EuCAP2014) | | 07/04/14 | | 11/04/14 | The Hague |
| Poznan Media Expo Conference - TV and Radio | | 09/04/14 | | 10/04/14 | Poznan |
| Luxembourg International Satellite Conference | | 06/05/14 | | 08/05/14 | Luxembourg |
| Dynamic Spectrum Alliance (DSA) Conf. Wireless Spectrum Sharing | | 13/05/14 | | 14/05/14 | Accra |
| Latin America Spectrum Management Conference | | 14/05/14 | | 15/05/14 | Rio de Janeiro |
| SatCom Africa 2014 | | 20/05/14 | | 21/05/14 | Johannesburg |
| ANCOM - CEE RWG 4th meeting and International Conference | | 26/05/14 | | 27/05/14 | Bucharest |
| 34th Annual Space Frequency Coordination Group (SFCG) meeting | | 02/06/14 | | 11/06/14 | Boulder |
| 3rd Luxembourg Workshop on Space and Satellite Communic. Law | | 05/06/14 | | 06/06/14 | Luxembourg |
| HACA International Colloquium | | 10/06/14 | | 11/06/14 | Abidjan |
| Istanbul TV Forum and Fair (ITVF) | | 12/06/14 | | 12/06/14 | Istanbul |
| CASBAA 2014 | | 16/06/14 | | 16/06/14 | Singapore |
| Ericsson Annual Seminar “Broadband for all” | | 16/06/14 | | 16/06/14 | Stockholm |
| 2014 Global Microwave Meeting | | 17/06/14 | | 17/06/14 | Göteborg |
| 9th European Spectrum Management Conference | | 18/06/14 | | 18/06/14 | Brussels |
| 28th Session Joint Committee of COSPAS SARSAT (JC-28) | | 16/06/14 | | 25/06/14 | Kuta (Indonesia) |
| CommunicAsia Summit | | 18/06/14 | | 18/06/14 | Singapore |
| “Connected Society, Spectrum and Regulatory Innovation” Conference | | 23/06/14 | | 23/06/14 | Rome |
| 2nd International Symposium on Radio Monitoring Technology | | 30/06/14 | | 03/07/14 | Chengdu |
| EBU Sustainable Spectrum Management Group Meeting | | 17/07/14 | | 18/07/14 | Geneva |
| GSC-18 (Global Standard Collaboration Meeting) | | 21/07/14 | | 23/07/14 | Sophia Antipolis |
| HFCC-ASBU B14 Coordination Conference | | 25/08/14 | | 29/08/14 | Sofia |
| 37th ISO General Assembly | | 10/09/14 | | 12/09/14 | Rio de Janeiro |
| IARU General Conference of Region 1 | | 21/09/14 | | 21/09/14 | Albena (Bulgaria) |
| “The 5G Huddle” event | | 22/09/14 | | 23/09/14 | London |
| Wireless World Research Forum (WWRS) 33rd Annual Meeting on 5G | | 24/09/14 | | 24/09/14 | Guildford |
| APSCC 2014 Satellite Conference & Exhibition | | 23/09/14 | | 25/09/14 | Phuket |
| 57th IISL Colloquium on the law of outer space (during AIC-2014) | | 30/09/14 | | 30/09/14 | Toronto |
| FRATEL/ANCOM/ANRT Annual Meeting | | 30/09/14 | | 01/10/14 | Marrakesh |
| V Foro: Futuro de las TIC en la Región Américas | | 02/10/14 | | 08/10/14 | Bogotá |
| IFRI Conference on Orbital Slots and Spectrum use in an Era of Interf. | | 09/10/14 | | 09/10/14 | Brussels |
| GSMA Mobile 360 - Middle East | | 13/10/14 | | 14/10/14 | Dubai |
| 2014 GM (SMB) & 78th IEC General Meeting | | 10/11/14 | | 11/11/14 | Tokyo |
| 16th International Space Radio Monitoring Meeting (ISRMM) | | 14/10/14 | | 16/10/14 | Mainz |
| Informa Broadband World Forum event | | 21/10/14 | | 24/10/14 | Amsterdam |
| Workshop on 5G during Global City Informatization Forum | | 05/11/14 | | 05/11/14 | Shanghai |
| The 2014 International Workshop on 5G ICT Technologies | | 06/11/14 | | 07/11/14 | Beijing |
| 9th Meeting Intl. Committee on Global Navigation Systems (ICG) | | 10/11/14 | | 14/11/14 | Prague |
| Global Forum/Shaping the Future 2014 | | 17/11/14 | | 18/11/14 | Geneva |
| 4th International Spectrum Congress | | 25/11/14 | | 26/11/14 | Bogotá |
| ANFR Conference 2014 “Spectrum and Innovation” | | 27/11/14 | | 27/11/14 | Paris |
| MENA Spectrum Management Conference | | 11/12/14 | | 11/12/14 | Doha |
| OSCE Regional Conference “Digi-Dare - before the final switchover” | | 11/12/14 | | 12/12/14 | Pristina |
| EBU Sustainable Spectrum Management Group | | December | | December | Prague |
| DigiTAG General Assembly | | 17/12/14 | | 17/12/14 | EBU Geneva |
| Study Group meetings | | | | | |
| 18th meeting of WP 5D | | 12/02/14 | | 19/02/14 | Viet Nam |
| 19th meeting of WP 5D | | 17/06/14 | | 25/06/14 | Halifax |
| ITU seminars, workshops and meetings | | | | | |
| ITU/NMHH Regional Seminar for Europe on Transition to Digital TV | | 29/01/14 | | 31/01/14 | Budapest |
| ITU/CTU Workshop on Emergency Telecommunications | | 19/02/14 | | 21/02/14 | Bridgetown |
| ITU Regional Workshop for the CIS Countries (Broadband, Wi-Max...) | | 03/03/14 | | 05/03/14 | Moscow |
| WTDC-14 | | 30/03/14 | | 10/04/14 | Dubai |
| ITU/UNITAR/UNOSAT & Esri - GIS for the UN and Intl. Community | | 07/04/14 | | 09/04/14 | ITU, Geneva |
| ITU Workshop “Efficient Use of Geostationary Orbit & Spectrum Resource” | | 14/04/14 | | 16/04/14 | Limassol |
| ITU/ASMG Forum on Broadcasting Transition from Analogue to Digital | | 17/05/14 | | 17/05/14 | Dubai |
| ITU/ASMG Coordination Meeting on GE06 Plan for Arab Countries | | 18/05/14 | | 20/05/14 | Dubai |
| ITU/ASMG Preparatory Meeting on WRC-15 | | 21/05/14 | | 22/05/14 | Dubai |
| ITU/ATU/AUC - 3rd Digital Migration & Spectrum Policy Summit | | 27/05/14 | | 29/05/14 | Nairobi |
| GSR + GRID | | 02/06/14 | | 05/06/14 | Manama, Bahrain |
| ITU/AICTO Workshop on Radiocomm. Procedures for Terrestrial Services | | 03/06/14 | | 05/06/14 | Tunis |
| ITU Regional Forum on IMT Systems, Technology, Evolution & Impl. | | 18/08/14 | | 19/08/14 | Panama |
| ITU/ITSO Workshop on Satellite Communications for E African countries | | 01/09/14 | | 05/09/14 | Kigali |
| ITU/ITSO Workshop on Satellite Communications for F African countries | | 08/09/14 | | 12/09/14 | Lomé |
| 2nd ITU/ASMG Coordination Meeting on GE06 Plan for Arab Countries | | 08/09/14 | | 12/09/14 | Hammamet |
| ITU/ASMG Coordination meeting for DTTS with the Arab region | | 10/09/14 | | 12/09/14 | Hammamet |
| ITU Workshop on Space Technology | | 17/09/14 | | 18/09/14 | Yerevan |
| ITU/NTBC International Satellite Symposium 2014 | | 18/09/14 | | 19/09/14 | Bangkok |
| 2nd ITU/ITSO Training Workshop on “VSAT and Satellite Systems” | | 21/09/14 | | 25/09/14 | Cairo |
| ITU/EKIP Regional Conf. “Towards Mobile Broadband Ubiquity in EU | | 29/09/14 | | 30/09/14 | Budva (Montenegro) |
| Plenipotentiary Conference (PP-14) | | 16/10/14 | | 07/11/14 | Busan |
| ITU/MIC International Workshop regarding “5G” during CEATEC | | 07/10/14 | | 11/10/14 | Chiba (J) |
| ITU Inter-Regional Workshop for preparation of WRC-15 | | 12/11/14 | | 13/11/14 | ITU, Geneva |
| ITU Intl. Conf. on Small Satellite issues (2 days) + 1 day workshop | | 24/11/14 | | 26/11/14 | Prague |
| The 12th World Telecommunication/ICT Indicators Symposium (WTIS) | | 24/11/14 | | 26/11/14 | Tbilisi (Georgia) |
| ITU Telecom World 2014 | | 06/12/14 | | 10/12/14 | Doha |
| 9th ITU Symposium on ICTs, Environment and Climate Change | | 11/12/14 | | 15/12/14 | Kochi (India) |
| Assistance Requests (AR) | | | | | |
| 4th and last meeting Assistance to NBTC - Spectrum Auction Study | | 17/03/14 | 21/03/14 | | Bangkok |
| Assistance to Albania | | 16/05/14 | 18/05/14 | | Tirana |
| Assistance to China - Training on “Green ICT Standards” | | 11/07/14 | 11/07/14 | | ITU Geneva |
| Assistance to Armenia on space services | | 16/09/14 | 16/09/14 | | Yerevan |
| Assistance to NBTC - new project | | 16/09/14 | 16/09/14 | | Bangkok |
| Local Seminar in NBTC | | 17/09/14 | 17/09/14 | | Bangkok |
| Assistance to Angola on DTT and Appendix 30A/B | | 27/10/14 | 30/10/14 | | ITU Geneva |
| Assistance to Sudan and South Sudan on Appendix 26 | | 13/10/14 | 14/10/14 | | Addis Ababa |
| Assistance to Mongolia | | 13/10/14 | 17/10/14 | | Ulan Bator |
| Assistance to Azerbaijan | | 03/11/14 | 05/11/14 | | Baku |
| Miscellaneous | | | | | |
| Lecture - Univers.of Leiden - Progr. Adv. Studies in Air and Space Law | 19/02/14 | | 19/02/14 | | Leiden |
| Lecture - School on Open Spectrum and Applications of White Spaces | 12/03/14 | | 14/03/14 | | Trieste |
| Invitation from Rohde & Schwarz to strengthen cooperation with ITU | 10/04/14 | | 11/04/14 | | Munich |
| Meeting with Italian Administration on harmful interference | 28/04/14 | | 30/04/14 | | Rome |
| Maritime and spectrum monitoring radiocommunications visit | 02/06/14 | | 04/06/14 | | Bucharest-Constanta |
| Meeting with Argentina’s universities | 15/09/14 | | 16/09/14 | | Buenos Aires |
| Meeting with Italian Administration on harmful interference | 22/09/14 | | 23/09/14 | | Rome |
| Visit to MINTIC and ANE Colombia | 09/10/14 | | 10/10/14 | | Bogotá |
| Visit to EAM Headquarters and CRECTEALC | 27/10/14 | | 28/10/14 | | Mexico City |
| Roundtable on “the Governance of Space Mineral Resources (SMR)” | 01/12/14 | | 01/12/14 | | The Hague |

Annex 5

Planned WRS and RRS cycle 2016-2019

On the basis of previous experience, and with the aim of having a midterm plan known in advance by the membership, BR has prepared a draft WRS & RRS Cycle 2016-2019, based on the following main considerations

– WRS: 2 WRSs (every 2 years), but moving back to the 2nd quarter (instead of the 4th quarter) to avoid overlapping with major ITU conferences

– During the quarter before and after a WRC, no RRS is scheduled (before: waiting for RR updates, after: waiting for update of software tools)

– The first WRS after a WRC will have a specific session devoted to explaining in detail the modifications to the RR introduced by the WRC.

– The two RRSs for Africa will not be performed in the same years as the WRS; this is in consideration both of the size (RRS Africa participation is nearly twice that of other RRSs), and of the need for even distribution of the budget for fellowships (Africa represents more than 50% of eligible countries).

On the basis of these considerations, it is planned to organize an RRS every quarter. In total, there will be 11 RRSs and 2 WRSs in each four-year cycle.

A table with the events planned for the 2016-2019 cycle appears below:





\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. These include the ITU‑R Handbooks on National Spectrum Management; Computer Aided Techniques for Spectrum Management; and Spectrum Monitoring. [↑](#footnote-ref-1)
2. These include the ITU‑R Handbooks on National Spectrum Management; Computer Aided Techniques for Spectrum Management; and Spectrum Monitoring. [↑](#footnote-ref-2)
3. This project applies to space and terrestrial software components and data. [↑](#footnote-ref-3)