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| **Radiocommunication Study Groups** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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|  | **Document 5/270-E** |
| **27 August 2015** |
| **English only** |
| Chairman, Radiocommunication Study Group 5 | |
| summary record oN the TeNTH meeting of study group 5 | |
| (Geneva, 20-21 July 2015) | |

# 1 Opening of the meeting

The Chairman, Dr. Akira Hashimoto (Japan) opened the meeting at 0930 Central European Time and welcomed the delegates to the tenth meeting of Study Group 5 (SG 5), the fourth meeting in this study cycle.

The Chairman noted that there had been significant progress since the previous meeting in November 2014, including the development of new Recommendations or Reports and issues related to the World Radiocommunication Conference (WRC). More than 80 inputs will need to be considered over the next two days. He encouraged members to enter into discussions in the spirit of cooperation, recognizing that administrations have submitted contributions reflecting divergent views on specific topics.

Mr. François Rancy, Director of the Radiocommunication Bureau, provided welcoming remarks. He congratulated Dr. Hashimoto on his leadership over the past eight years. He also thanked the administrations and delegates for their work toward developing worldwide standards and best practices for the use of spectrum. He noted in particular the approval of the standards/specifications for IMT-Advanced including its satellite component, and IMT-2020 as part of the essential role of SG 5. He thanked SG 5 for the results achieved on studies in support of WRC-15, such as work on Global Flight Tracking, on which he would include various views in his Report to the WRC.

He also thanked the administration of Romania for their outstanding hospitality in hosting Working Party 5A, 5B, and 5C meetings in the past weeks.

The Chairman introduced Mr. Sergio Buonomo, Counsellor to SG 5, noting that his advice will be very important during the meeting.

# 2 Approval of the agenda

The Chairman asked the meeting to consider the outputs of the Working Parties in the following order: 5B, 5D, 5A, and 5C in the agenda in Document [**5/ADM/5**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-ADM-0005). The Chairman proposed one amendment in Section 7.1.5 by adding “(Sect.2.1.4)” which is the relevant portion of the document.

The United Kingdom indicated that Document 5/193 under agenda item 7.2.2.1 was superseded by events and asked to have it removed. The draft agenda was approved as amended.

# 3 Appointment of the Rapporteur

The administration of the United States nominated Ms. Amy L. Sanders as Rapporteur for the first day of the meeting. The administration of Japan nominated Dr. Hiroyuki Atarashi as Rapporteur for the second day of the meeting. These candidacies were approved by the meeting.

**4 Approval of the Summary Record of the previous meeting**

The Chairman asked the meeting for comments on the Summary Record of the ninth meeting of Study Group 5, held in Geneva 10-11 November 2014, in Document [**5/187**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0187). The document was approved by the meeting without further modifications.

# 5 Report on the meeting of RAG-15

The Chairman introduced Circular Letter [**CA/223**](http://www.itu.int/md/R00-CA-CIR-0223/en), the summary of conclusions from RAG-15, held 5-8 May 2015 in Geneva. The document was noted as no actions were requested from this meeting.

# 6 Joint Task Group 4-5-6-7 issues

Study Group 4 provided Document [5/249](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0249) indicating that they had approved the last two Reports developed by the JTG, which completed the approval of the outputs from the JTG.

The meeting expressed its sincere thanks to Mr. Martin Fenton, Chairman of the JTG, and to the former Chairman of the group, Mr. Thomas Ewers as well.

# 7 Consideration of the outputs of the Working Parties

## 7.1 Working Party 5B

### 7.1.1 Executive Report contained in Document [5/243](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0245)

Mr. John Mettrop (Chairman, WP 5B) introduced his report, which covered both the extraordinary meeting on Global Flight Tracking and the sixteenth meeting of WP 5B. He highlighted Section 2.1.1 and the table produced on the documents associated with WRC-15 agenda items.

Mr. Mettrop also highlighted three ITU-R Reports on which the Working Party was unable to conclude its work associated with WRC agenda items.

He further brought to the meeting’s attention the followings:

– Protection of SRS Earth Stations from transmitting mobile stations in the band   
2.2-2.29 GHz, which is addressing consultation with WP 7B;

– Liaisons with ITU-T that seem to indicate that ITU-T is duplicating the work under the purview of ITU-R;

– A note has been sent to the Director on Global Flight Tracking, which contains three views.

The Chairman proposed the following courses of action on these topics:

– For the first bullet point, encourage the administration with the concern to raise it directly to the RA and WRC as required.

– Address the ITU-T liaison issue under an item later in the agenda, i.e. **8.1.4.**

The meeting agreed to these courses of action.

### 7.1.2 Draft Recommendations

**Document** [**5/226**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0226) **– Draft new Recommendation ITU-R M.[WAIC\_CONDITIONS] - Technical conditions for the use of wireless avionic intra-communication systems operating in the aeronautical mobile (R) service in the frequency band 4 200-4 400 MHz**

Mr. Mettrop introduced the document and confirmed that there were no intellectual property issues.

The Chairman considered the document section-by-section and page-by-page within the sections. The document was agreed to follow the procedure for the PSAA.

**Document** [**5/252**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0252) - **Draft new Recommendation ITU-R M.[AMS-CHAR-15GHZ] - Technical characteristics and protection criteria for aeronautical mobile service systems in the frequency range 14.5-15.35 GHz**

Mr. Mettrop introduced the document and noted there were no intellectual property issues. He also noted there was an objection from the Russian Federation.

The Russian Federation provided a comment that the characteristics set forth in the Recommendation will impose undue constraints on existing and future fixed and mobile communications. It asked that the document not be adopted and sought further work in order to clarify the potential impact of the usage scenario.

The United States noted that the draft Recommendation used the characteristics of existing systems that operate within the current allocations in the band, and that it is relevant to WRC-15 agenda item 1.6. The U.S. asked to send the document to the Radiocommunication Assembly.

The Chairman of WP 5B confirmed that there had been no input over the last two meetings and that it was related to agenda item 1.6. Canada supported the views expressed by the US.

The Chairman indicated that, according to ITU-R Resolution 1-6 Section 10.2.1.2, if this is a WRC issue and there is an opposition, the document should be forwarded to the Radiocommunication Assembly for consideration with the reason for the objection. He requested the Russian Federation to provide its reason for objection in a written form (see Annex 1).

The meeting agreed to this way forward.

**Document** [**5/256**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0256) **- Draft new Recommendation ITU-R M.[VDES] - Technical characteristics for a VHF data exchange system in the VHF maritime mobile band VHS data exchange system**

Mr. Mettrop introduced the document. He noted that it is WRC-related and there was an objection from the Russian Federation. He confirmed that there were no intellectual property rights issues.

The Russian Federation provided a comment that the system under consideration was dependent on a new allocation (maritime mobile-satellite service) that is not currently present and requires action at WRC-15. Therefore, it could be considered only after WRC-15.

France indicated that, while noting that there is a new allocation issue, there had been no contribution from the Russian Federation over the two years of the development of this Recommendation. France suggested sending it to the Radiocommunication Assembly for consideration. The United States noted the relationship of this document to WRC-15 agenda item 1.16, as well as the stability of the document, and supported the French proposal to send it to the RA. Japan also supported this position.

The Chairman indicated that, according to the provisions of ITU-R Resolution 1-6, the document will be sent to the Radiocommunication Assembly for consideration. He requested views from the Russian Federation for inclusion in his note to the Radiocommunication Assembly (see Annex 1).

**Document** [**5/259**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0259) **- Draft revision of Recommendation ITU-R M.1849- Technical and operational aspects of ground-based meteorological radars**

Mr. Mettrop introduced the document and noted that there were no known intellectual property issues.

Israel indicated they had provided editorial comments that had been transmitted to the Chairman of WP 5B and the Secretariat. The Chairman indicated that these editorial works would be addressed by the Chairman of WP 5B and the Counsellor.

The Russian Federation proposed a number of editorial changes, beginning with *considering* c) and throughout the document using the same language, to insert ‘systems in’ before ‘other services’.

The meeting agreed the document as edited. The Chairman proposed, and the meeting agreed,  
to apply the PSAA.

Document [5/266](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0266) - Draft revision of Recommendation ITU-R M.493-13 - Digital selective-calling system for use in the maritime mobile service

Mr. Mettrop introduced the document and confirmed there were no intellectual property issues.

The Russian Federation proposed that the text of *recommends* 1, which states ‘devices of equipment which use DSC channel frequencies show full compliance’, be revised changing ‘show’ to ‘should be in’. The Chairman of WP 5B concurred with the amendment. The Russian Federation also asked, with regard to *recommends* 6, what was meant by ‘sufficient separation’. It was agreed to add the word ‘geographical’ before ‘separation’ in *recommends* 6.

The meeting agreed the document as edited. The Chairman proposed applying the PSAA and this was agreed.

**Document** [**5/267**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0267) **- Draft revision of Recommendation ITU-R M.541-9 – Operational procedures for the use of digital selective-calling equipment in the maritime mobile service**

Mr. Mettrop introduced the document and confirmed there were no intellectual property issues.

After it was considered and agreed by the meeting in substance, the Chairman indicated that, this is one of the Recommendations incorporated by reference in the Radio Regulations, to which the PSAA cannot be applied. The meeting agreed to apply the two-step procedure under Section 10.2.3 of Resolution ITU-R 1-6, which would not be completed for up to four months, i.e. after WRC-15. France indicated its view that the approval was needed before the WRC and asked if an alternative procedure could be applied.

The Chairman, consulting with the Secretariat, agreed to apply the procedure for adoption by correspondence in the first round and then subsequent transmittal to the Radiocommunication Assembly in accordance with Section 10.4.2 of Resolution ITU-R 1-6 (approval is sought, if justified, at the RA). The Chairman would, summarizing the discussion at this meeting, provide a justification for the transmittal to Radiocommunication Assembly as follows:

This Recommendation related to safety issues needs to be approved as early as possible in conjunction with the approval of the revision of another Recommendation ITU-R M.493-13 dealing with similar subject.

### 7.1.3 Editorial revision of Recommendations

**Document** [**5/233 (Annex 1)**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0233) **- Editorial correction of Recommendation ITU-R M.1851**

Dr. Haim Mazar (Israel) introduced the document, which offered editorial corrections to Recommendation ITU-R M.1851. He indicated these editorials had been provided previously to   
WP 5B.

The People’s Republic of China supported addressing the editorial revisions. The Chairman of WP 5B noted that WP 5B was currently modifying the Recommendation and hopes to complete it at the next meeting. He asked that the editorials be returned to WP 5B to be addressed there along with the on-going modifications. The Chairman of WP 5B further indicated that the majority of the amendments were editorial; but there were some changes that may or may not be editorial, and the relevant experts were not present here. The Chairman noted that this subject would be reflected in the minutes and the matter would be addressed in WP 5B at its next meeting.

### 7.1.4 Draft Reports

**Document** [**5/225**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0225) **- Draft new Report ITU-R M.[MAR-MSS] - Use of non-geostationary orbit mobile satellite systems to enhance maritime safety**

Mr. Mettrop introduced the document, noting that it was related in some ways to WRC-15 agenda item 1.16, and contained no intellectual property issues. He asked the Chairman to consider taking the document as a whole. The document was approved.

**Document** [**5/251**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0251) **- Draft new Report ITU-R .[VDES-SELECT] - Selection of the channel plan for a VHF data exchange system**

Mr. Mettrop introduced the document, noting that it was related in some ways to WRC-15 agenda item 1.16. He indicated there were no intellectual property rights issues and noted that there was one objection from the Russian Federation at his meeting.

The Russian Federation expressed its concern that the adoption of the Report pre-empted the decisions of the WRC. Furthermore, the Russian Federation was of the view that the issue was fully covered in the CPM Report and would become obsolete following the Conference.

France explained the background of the development of the four frequency plans contained in the draft new Report. It indicated that one of the frequency plans was developed subsequent to the development of the CPM Report and was, therefore, not reflected in the CPM text. France considered it essential for WRC-15 to have the draft new Report in its deliberations.

Israel noted that the CPM Report has no relevance following the Conference, so inclusion there was not sufficient. The United States, supporting the views of France and Israel, noted the mature state of the document.

The Chairman proposed noting the concern of the Russian Federation in the minutes and considering the document (see Annex 1). The way forward was acceptable to the meeting.   
The document was approved.

**Document** [**5/253**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0253) **- Draft new Report ITU-R M.[AIS.PROTECTION] - Technical assessment of RR Appendix 18 - Channel usage to protect automatic identification system channels and also protect any additional channels that may be allocated to support automatic identification system technology applications**

Mr. Mettrop introduced the document and indicated there were no intellectual property issues.   
The Chairman indicated it was related to agenda item 1.16 of WRC-15.

The Russian Federation asked what was meant by ‘unacceptable effects’ in the first paragraph in Section 2. France explained that reception of AIS and AISM would be blocked. The Russian Federation suggested the editorial change in that part. As a result of the offline discussion, it was agreed to replace ‘unacceptable’ with ‘blocking’ and adding a sentence for the explanation.

Canada indicated other additional suggestions in Section 4. In the title of Section 4, ‘Suggestions’, seemed unusual in an ITU-R document. Canada proposed that in Section 4 where it indicates that ‘administrations should take appropriate technical regulatory actions’ should be changed to ‘administrations are encouraged to take appropriate actions’, since this is a Report and not a Recommendation. The Russian Federation supported the Canadian approach in principle with further refinement of the language to start with ‘It would be appropriate to take.. ’. The meeting agreed to make this change in all three bullets in Section 4. The Chairman proposed changing the title of Section 4 to ‘Summary’

Israel noted further inconsistencies on Page 6, Table 8.1.1, where ‘receive level’ is used as opposed to ‘receiver level’ in other tables. The meeting agreed to the change.

The document was approved with the above editorial changes.

### 7.1.5 Draft Questions

**Document** [**5/254**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0254) **- Draft new Question – operational and radio regulatory aspects for space planes**

Mr. Mettrop introduced the document.

The Russian Federation noted that the use of the word ‘space’ in this Question seemed outside the purview of WP 5B. To avoid any misunderstanding, the Russian Federation proposed to use ‘upper level of the atmosphere’, as was used elsewhere in the document. The meeting agreed to the change in the title and in *decides* 1. France pointed out that *considering* b provided a definition of ‘space planes’. Russian Federation proposed deletion of the term in *considering* b and *decides* 3.

The document was approved as edited. The meeting agreed to apply the PSAA.

**Document** [**5/243 (Sect. 2.1.4)**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0243) **– Updating of Questions under the purview of WP 5B**

Mr. Mettrop introduced the document, which proposed the suppression of five Questions and editorial revision of two Questions, as follows:

− Proposed for suppression: Q. 202-3/5, Q.225-0/5, Q.231-0/5, Q.240-0 and Q.249-0/5;

− Proposed for editorial revision: Q.62-2/5 and Q.235-0/5.

These actions were agreed. The suppression of the Questions would be published under the PSAA, while the editorial changes to the other Questions were approved and will be processed by the Secretariat.

At the end of the consideration of the outputs from WP 5B, the Chairman passed on his sincere thanks to the Chairman of WP 5B for his excellent leadership, as well as to all participants in   
WP 5B for their important outputs. The Chairman of WP 5B expressed his thanks to his leadership team, who have impartially guided the meetings to the best possible outcomes under trying and,   
in some cases, unacceptable circumstances. He saluted their patience in tolerating unprofessional behaviour and reiterated his full support and backing for his chairmen.

The Chairman recognized the difficulties that had to be overcome in achieving the excellent results of WP 5B.

## 7.2 Working Party 5D

### 7.2.1 Executive Report contained in Document [5/245](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0245)

Mr. Blust (Chairman, WP 5D) introduced his report. He drew the meeting’s attention to Section 1 with the documents submitted to SG 5 for consideration. He noted that 5/198 and 5/199 had been advance announced and met the criterion of being available four weeks prior to the Study Group 5 meeting.

He asked for adoption at the Study Group for these documents. With regard to 5/213Rev.1, he noted the written statements in Attachment 1 of his report. With regard to 5/214, he noted the written statements provided in WP Chairman’s Report of the 22nd meeting and brought to the attention of Study Group 5. He further noted there had been extensive discussion in WP 5D on these two documents and apologized for not being able to resolve these concerns despite efforts over many meetings.

Section 2 provided a review of Resolutions, Opinions, Questions, and status of studies invited by WRC Resolutions. The Chairman of WP 5D noted the proposal that Resolution ITU-R 17-4 be suppressed. He further noted that, for all Opinions and Resolutions that required coordination with WP 4B, such coordination occurred.

Section 3 offered a summary of the work of WP 5D. One item not included in the report was the completion of the Handbook on Global Trends in IMT. The Handbook was collaboratively developed with ITU-T and ITU-D and was recommended to the attention of the meeting.

Section 4 detailed the work programme for WP 5D, including IMT-2020. Both the spectrum and technical work related to IMT-2020 will be addressed in the work programme. Section 5 contained the timeline and plan for IMT-2020.

He asked to hold his remarks until the end of the discussion of the inputs from WP 5D.

The Chairman proposed separate discussions on the draft revision of Recommendation ITU-R M.1036-4 and draft new Recommendation ITU-R M.[BSMS700], as indicated in his agenda.

### 7.2.2 Draft Recommendations

**Document** [**5/198**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0198) **- Draft revision of Recommendation ITU-R M.2012-1 - Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications\_Advanced (IMT-Advanced)**

Mr. Blust introduced the document.

The Chairman noted that the traditional practice for the revision of Recommendations on the specifications for IMT was not to go into the details of the proposed revision, but consideration could focus only on the text provided in the cover pages. The Counsellor noted that ‘Key Words’ needed to be added, which was agreed to be handled editorially. With this approach, the substance was agreed by the meeting. The document was adopted by the meeting followed by the approval procedure in Section 10.4 of Resolution ITU-R 1-6.

**Document** [**5/199**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0199) **- Draft new Recommendation ITU-R M.[IMT.VISION] - IMT Vision - "Framework and overall objectives of the future development of IMT for 2020 and beyond"**

Mr. Blust introduced the document. He confirmed there were no intellectual property concerns associated with the Recommendation.

Israel noted that Figure 5 was extremely useful. He asked if the figures in other Reports and Recommendations could be updated to include this Figure. The Chairman indicated that the comment from Israel would be recorded; but, that it was up to WP 5D to update or revise the documents under its purview.

The document was agreed to be adopted then followed by the approval procedure in 10.4 of Resolution ITU-R 1-6.

#### 7.2.2.1 Document [5/213rev.1](http://www.itu.int/md/R12-SG05-C-0213/en) - Draft revision of Recommendation M.1036 and related documents - Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications (IMT) in the bands identified for IMT in the Radio Regulations (RR)

The Chairman noted that many inputs had been received on the subject of the revision of Recommendation ITU-R M.1036-4. He invited the Chairman of WP 5D to introduce the draft revision ([5/213Rev.1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0213)), followed by introduction of all the related inputs. He asked the floor that discussion be deferred until the completion of the introduction of all the documents.

Mr. Blust introduced the draft revision of Recommendation ITU-R M.1036-4. He noted that, if the document were to go for further consideration, the views expressed in the cover page of the document would need to be retained with the document.

The Chairman noted the reservations expressed by administrations in the WP 5D’s Chairman’s Report regarding the inclusion of the bands 1 980-2 010 MHz and 2 170-2 200 MHz in the revision of this Recommendation, and the two different views included in the cover pages of the document.

The following documents related to the revision of Recommendation ITU-R M.1036-4 were then introduced:

The Chairman of WP 5D introduced:

– [5/190](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0190) (WP5D) Liaison statement to Working Party 4C- Coexistence issues between the satellite and terrestrial components of IMT and Revision of Recommendation   
ITU-R M.1036-4;

– [5/200](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0200) (WP5D) Liaison statement to Working Party 4C - Coexistence issues between the satellite and terrestrial components of IMT and the proposed revision of Recommendation ITU-R M.1036-4.

The Chairman introduced the following documents on behalf of WP 4C:

– [5/194](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0194) (WP4C) Reply liaison statement to Working Party 5D - Coexistence issues between the satellite and terrestrial components of IMT and the proposed revision of Recommendation ITU-R M.1036-4;

– [5/212](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0212) (WP4C) Reply liaison statement to Study Group 5 (copy for information to Working Party 4B, 4C and 5D) - Coexistence issues between the satellite and terrestrial components of IMT and the proposed revision of Recommendation ITU-R M.1036-4.

The Russian Federation introduced [5/218](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0218), Issues in relation to the draft revision of Recommendation ITU-R M.1036-4, which opposes to include the new arrangements in the bands 1 980-2 010 MHz and 2 170-2 200 MHz and proposes its joint adoption procedure by Study Groups 4 and 5.

The People’s Republic China introduced [5/219](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0219), Proposals on the revision of Recommendation   
ITU-R M.1036-4, which states that the inclusion of the new arrangements in the concerned bands is premature and the prior agreement of Study Group 4 is required for this draft revision.

The Republic of Korea introduced [5/231](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0231), Adoption of the revision of Recommendation   
ITU-R M.1036-4, which supports the adoption of the draft revision at this meeting.

Sweden introduced [5/239](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0239), Support of adoption of the draft revision of Recommendation   
ITU-R M.1036-4, on behalf of multiple European countries, which noted that the new arrangements in the 700 MHz band are important and urgent for many Region 1 countries.

The Chairman noted the relationship between agenda item 1.2 of WRC-15 and certain arrangements in Section 2 in the draft revision of Recommendation ITU-R M.1036-4.

Canada introduced [5/241](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0241), Progression of the draft revision of Recommendation ITU-R M.1036-4 - Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications (IMT) in the bands identified for IMT in the Radio Regulations (RR), on behalf of Canada, Colombia, and the United States.

The Chairman opened the floor for comments or observations toward a possible solution.

Sweden sought a common understanding of the purpose of the Recommendation. The Chairman noted that WP 5D did not propose a change of the scope, and that this Recommendation was for the ‘preferred arrangements for the terrestrial component of IMT’. From his experience with F-series Recommendations, the Chairman noted that no ITU-R Recommendation on arrangements contains a sharing analysis. However, some arrangements may be conditionally recommended, if the implementation of that arrangement significantly affects compatibility issues.

The Russian Federation was of the view that sharing is extremely important and disagreed with the report from Chairman of WP 5D that all the technical issues had been resolved. The Russian Federation quoted Note 3 of section 6.1.2 of Resolution ITU-R 1-6: ‘Recommendations that include sharing criteria with other services must obtain agreement, prior to the adoption, from the Study Groups responsible for the service’, as well as the first indent of item b) of 10.2.1.2 of Resolution ITU-R 1-6 on seeking consensus with other Study Groups. The Russian Federation, supporting the views of Study Group 4, proposed that the draft revision be returned to Working Party 5D.

The People’s Republic of China supported the view of the Russian Federation. It further pointed to the element in the scope of the Recommendation that mentioned ‘minimizing the impact on other systems and services in the bands’. Therefore, China was of the view that the draft revision needed approval of Study Group 4.

The United States supported the view that Study Group 5 had sole responsibility for the development of frequency arrangements for IMT, as it has for the past 21 years. The US was of the view that the proposals from China and the Russian Federation violated two key principles of work in the ITU-R: 1) new frequency arrangements do not require sharing and coexistence studies and the definition of coordination mechanisms. The US has already implemented the frequency arrangements in question in the draft revision and has had no difficulty with its neighbours; 2) Study Groups and Working Parties are not required to consult with other groups on the development of band plans of the services for frequency bands where they have an allocation in the Radio Regulations. The US indicated that they would support transmitting the document to the Radiocommunication Assembly.

Mr. Charles Glass, Chairman of Working Party 5C, noted that there are a vast number of channelling arrangement Recommendations developed in WP 5C, all of which have been handled within the purview of Study Group 5. The precedent that could be set with regard to this revision of Recommendation ITU-R M.1036 could have extensive implications for a number of other Recommendations already in force. He expressed serious concern with the arguments being put forward. The Chairman indicated that this was his first experience with a proposal that arrangement Recommendations be considered for approval in other study groups.

Nigeria spoke in favour of the approval of the revision of Recommendation ITU-R M.1036-4 and the separation of the issues of sharing and compatibility from frequency arrangements, as well as the transmittal to the Radiocommunication Assembly.

The Republic of Korea raised two additional points: 1) the point raised from China and Russia is not a technical issue, but a procedural issue, and 2) sharing and compatibility issues are separate from frequency arrangements.

Cameroon spoke in support of the view of the Chairman and others to separate the issues of frequency arrangements and compatibility studies. It urged adoption, as the timely approval of the Recommendation was essential to the work of the WRC and suggested the transmittal to the Radiocommunication Assembly.

The Russian Federation disagreed to that this was not a technical issue. It pointed out that these were issues of the different components of the same system and were interlinked. The Russian Federation was of the view that the draft revision could not be approved until the technical studies were completed.

The Chairman noted the divergence of opinions and the relationship to WRC-related elements, he therefore proposed that the meeting decide to forward the text to the next Radiocommunication Assembly. Under this procedure, the Chairman would need to summarize the discussion and the reasons for the objections. He indicated he would use the text from the Attachment 1 of Document 5/245 to summarize the views and asked the opponents to provide him any additional or revised text if they so wish.

The People’s Republic of China suggested withdrawal of the controversial elements of the draft revision, i.e. revisions in section 3 of Annex 1, and to consider the document in this status, prior to submission to the RA. Israel supported this approach.

The United Arab Emirates (UAE) indicated that the topic was not one of allocation or identification as such an issue in these bands were already addressed in the Radio Regulations. There are no obligations on any administration to implement any of the arrangements. It supported consideration of the whole Recommendation and not dividing it into parts.

The Russian Federation noted that the only issues were with the 2 GHz band. If those arrangements were removed, then approval at this Study Group 5 would be possible.

The Chairman asked if this approach would be acceptable to the meeting.

The United States indicated that the dissection of the Recommendation to appease one or two administrations was not an appropriate approach. It further noted that, as a result of the CPM15-2, the Director of the BR has indicated that he would include this 2 GHz issue in his Report to   
WRC-15. The US also requested that the views of the proponents be included in the summarization of the meeting to be transmitted to the Radiocommunication Assembly.

The Chairman reminded the meeting that transmittal to the Radiocommunication Assembly did not presume approval, but further consideration there.

The Chairman indicated that it appeared no agreement was possible in Study Group 5, and that the document would be transmitted to the Radiocommunication Assembly in accordance with 10.2.1.2 item a) of Resolution ITU-R 1-6 along with the views (see Annex 2).

#### 7.2.2.2 Document [5/214](http://www.itu.int/md/R12-SG05-C-0214/en) - Draft new Recommendation M. [BSMS700] and related documents - Specific out-of-band emission limit of IMT mobile stations operating in the frequency band 694-790 MHz for protection of existing services in Region 1 in the frequency band below 694 MHz,

The Chairman noted that many documents had been received on the subject of the draft new Recommendation ITU-R M.[BSMS700]. He invited the Chairman of WP 5D to introduce the document ([5/214](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0214)), followed by introduction of all the related inputs. He asked that discussion be deferred until the completion of the introduction of all the documents.

Mr. Blust introduced the draft new Recommendation ITU-R M.[BSMS700], Specific out-of-band emission limit of IMT mobile stations operating in the frequency band 694-790 MHz for protection of existing services in Region 1 in the frequency band below 694 MHz.

He confirmed that, following discussions in the previous meeting of Study Group 5, WP 5D did engage in consultations with the relevant Working Party and other organizations.

The Chairman noted the reservations expressed by one administration and some sector members in Report of the Chairman of WP 5D in Document 5/245.

Mr. Christoph Dosch, the Chairman of Study Group 6, introduced [5/192](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0192), Note to ITU-R Chairman Study Group 5 - Preliminary draft new Recommendation ITU-R M.[BSMS700].

The Chairman of Study Group 5 noted that he had sent 5D/962 as a result of this Note, which prompted appropriate action by WP 5D. He introduced [5/215](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0215) Note to Chairman of Study Group 6 - Draft new Recommendation (DNR) ITU-R M.[BSMS700], that reflected those results of the previous WP 5D meeting.

The Russian Federation introduced [5/217](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0217), Issues in relation to the draft new Recommendation ITU-R M.[BSMS700], which provided its objection to adopt the DNR in its current status and proposed further consideration in collaboration with WP 6A to address all missing elements for the protection of broadcasting service.

The Islamic Republic of Iran introduced [5/224](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0224), Action to be taken for Document 5/214 - Draft new Recommendation ITU-R M.[BSMS700], which provided its objection to adopt the DNR and actions to be taken for this Document 5/214 including forwarding it to WP 6A for consideration.

France introduced [5/240](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0240), Adoption of draft new Recommendation ITU-R M.[BSMS700], on behalf of multiple administrations from CEPT, ATU, and ASMG. The document proposed to adopt the DNR without further work at this stage.

The Chairman opened the floor for discussion on this draft new Recommendation.

Nigeria spoke in support of approval of the Recommendation, citing its maturity and the resoluteness of Africa in moving ahead with the implementation of IMT in the band.

The Chairman noted that it would not be possible for the Study Group to move forward on adoption or any procedure toward adoption at this moment with the objections of two administrations, the Russian Federation and the Islamic Republic of Iran.

The United Kingdom supported the view of Nigeria.

The Vatican disagreed with characterization of an agreement being reached in the JTG and supported those asking for further consultations with Study Group 6.

NDR questioned the maturity of the studies on this topic. The Chairman of WP 5D noted that Working Party 5D communicated with 3GPP and received confirmation of the numbers for the requirements that are in the draft Recommendation.

The UAE stressed that efforts were taken in WP 5D to reach compromise; but, despite best efforts, no agreement could be reached. It asked for adoption at this meeting and, failing that, transmittal to the Radiocommunication Assembly.

The Russian Federation reiterated its concerns with the technical maturity of this ITU-R deliverable and strong opposition to approval in Study Group 5.

France reminded the meeting of the extensive efforts made to reach compromise.

RAI supported the Vatican and the Russian Federation.

Iran questioned the role of 3GPP in developing ITU-R documents in relation to sharing and compatibility.

The Chairman indicated that the meeting should decide to forward the text to the next Radiocommunciation Assembly in accordance with 10.2.1.2 item a) of Resolution ITU-R 1-6.   
In this procedure, the Chairman of Study Group 5 is requested to summarize the discussion and the reasons for the objection (see Annex 3). The Chairman indicated that he would consult with the Chairman of Study Group 6 in summarizing the issue, and that this meeting would separately create a document to convey this result to Study Group 6, which would have its meeting before the Radiocommunication Assembly.

### 7.2.3 Draft Resolutions

**Document** [**5/201**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0201) **Draft new Resolution ITU-R [IMT.PRINCIPLES] - Principles for the process of future development of IMT for 2020 and beyond,**

Mr. Blust, the Chairman of WP 5D, introduced the document. He explained the distinctions between Resolution ITU-R 57-1 on IMT-Advanced and this draft new Resolution.

The Chairman considered the document page-by-page and item-by-item.

The document was adopted and will go to the Radiocommunication Assembly for approval.

It was confirmed by Chairman of WP 5D that Resolution ITU-R 57-1 will have no proposal for revision.

**Document** [**5/209**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0209) **Draft revision of Resolution ITU-R 50-2 - Role of the Radiocommunication Sector in the ongoing development of IMT**

The Chairman of WP 5D introduced the document.

The Chairman considered the document page-by-page and item-by-item.

The document was adopted and will go to the Radiocommunication Assembly for approval.

**Document** [**5/210**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0210) **Draft revision of Resolution ITU-R 56-1 - Naming for International Mobile Telecommunications**

The Chairman of WP 5D introduced the document.

The Chairman considered the document page-by-page and item-by-item. The Chairman of WP 5D noted an editorial in *recognizing* b), which should cite Resolution ITU-R 9, rather than Resolution ITU-R 9-3. This was agreed.

The document was adopted with this small change and will go to the Radiocommunication Assembly for approval.

The Chairman raised the subject of the joint responsibility of Study Groups 4 and 5 for these IMT Resolutions, which were substantially agreed in WP 4B, but SG 4 did not consider the text proposed from WP 5D due to the meeting schedules. The Chairman indicated that any decisions of this meeting relating to draft Resolutions on IMT issues will be conveyed to the Chairman of SG 4.  
If there is any view from SG 4, this can be communicated to the RA and addressed there.

### 7.2.4 Proposal for suppression of Resolution

The Chairman of WP 5D introduced [5/245](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0245) (Section 2.2), which proposed the suppression of Resolution ITU-R 17-4. There was no objection and the suppression was agreed.

### 7.2.5 Draft Reports

**Document** [**5/202**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0202) **- Draft new Report ITU-R M.[IMT.BEYOND2020.TRAFFIC] - IMT Traffic estimates for the years 2020 to 2030**

Mr. Blust introduced the document.

Israel raised two issues regarding Page 7. It suggested updating to the number of users in 2011 on Page 7 to reflect the number in 2014, which was just released by ITU-D.

In addition, it suggested a reference to Resolution ITU-R 60 on reduction of energy consumption of environmental protection and mitigation of climate in the part of Page 7.

The Chairman of WP 5D noted that the ITU-D numbers were released following the conclusion of the last meeting of WP 5D. He questioned whether reference to Resolution ITU-R 60 would substantially impact the thrust of the document.

The Chairman agreed to have the Secretariat update the number of users prior to publication.   
The Chairman suggested that the proposed inclusion of reference to Resolution ITU-R 60 in future work could be mentioned in the minutes of the Study Group 5 meeting, with the concurrence of Israel.

The document was approved as agreed to be edited.

**Document** [**5/203**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0203) **- Draft new Report ITU-R M.[IMT.AV] - Audio-visual capabilities and applications supported by terrestrial IMT systems**

Mr. Blust introduced the document. The document was considered as a whole. It was approved.

**Document** [**5/206**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0206) **- Draft new Report ITU-R M.[TDD.COEXISTENCE] - Coexistence of two TDD networks in the 2 300-2 400 MHz band**

Mr. Blust introduced the document. This document was considered as a whole. It was approved.

**Document** [**5/207**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0207) **- Draft new Report ITU-R M.[IMT.ARCH] - Architecture and topology of IMT networks**

Mr. Blust introduced the document. The Chairman noted, as an editorial, that the references to Report ITU-R F.[IMT-BB] would need to be removed, as the document was yet to be approved in WP 5C. This was confirmed by the Chairman of WP 5C.

This document was considered as a whole. It was approved as agreed to be edited.

**Document** [**5/208**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0208) **- Draft new Report ITU-R M.[IMT.ABOVE 6 GHz] - Technical feasibility of IMT in bands above 6 GHz**

Mr. Blust introduced the document. The document was considered as a whole. It was approved.

### 7.2.6 Draft Questions

**Document** [**5/204**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0204) **- Editorial update to Question ITU-R 77-7/5 - Consideration of the needs of developing countries in the development and implementation of IMT**

Mr. Blust introduced the document. The document was taken as a whole. It was approved.

**Document** [**5/205**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0205) **- Draft revision of Question ITU-R 229-3/5 - Further development of the terrestrial component of IMT**

Mr. Blust introduced the document. The meeting considered the document section-by-section.

The Russian Federation questioned the data in *considering* a) and whether it referred to subscriptions or individuals without service. The Chairman of WP 5D agreed to confirm the data with the information recently released by the ITU.

The document was agreed pending confirmation/revision of *considering* a). The PSAA was applied.

### 7.2.7 Proposal for suppression of Question

**Document** [**5/245**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0245) **(Section 2.3) – Proposed suppression of Question ITU-R 251/5 on passive and active antenna systems for base stations of IMT systems**

Mr. Blust introduced the rationale for suppression of the Question. The suppression was agreed to apply the PSAA.

### 7.2.8 Other issue

**Document** [**5/197**](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-SG05-C-0197) **- Service types and their peak bit rates**

Israel introduced the document, which proposed editorials and clarifications for Recommendation ITU-R M.1768-1, ‘Methodology for calculation of spectrum requirements for the terrestrial component of International Mobile Telecommunications’.

The Chairman of WP 5D noted that this topic could have been usefully addressed at the recently completed WP 5D meeting. Given that Recommendation ITU-R M.1768-1 was used to support the work for WRC-15, it would not be advisable to revise the document at this meeting without the input of the relevant experts. The Chairman proposed to transfer this document to WP 5D for its consideration in the first meeting in 2016. The meeting agreed with this way forward.

Before finishing the consideration of the outputs from WP 5D, Mr. Blust expressed his appreciation to the members for their dedication to WP 5D during this study period and made remarks on expectation on future work in a new study period in WP 5D. He also expressed his gratitude to the Chairman for his leadership in Study Group 5 and for his invaluable guidance to him and the Working Party. The Chairman thanked to Mr. Blust and all the members who have achieved significant work in this study period and looked forward to making more developments in the next study period from WP 5D.

## 7.3 Working Party 5A

### 7.3.1 Executive Report contained in Document [5/242](http://www.itu.int/md/R12-SG05-C-0242/en)

Mr. José Costa (Chairman, WP 5A) introduced his report. Since the last meeting of Study Group 5 in November, 2014, WP 5A held its fifteenth meeting from 6-16 July 2015 in Bucharest, Romania. Mr. Costa thanked the administration of Romania because the organization of the meeting and the facilities were excellent. Executive summary of the results of this fifteenth meeting was detailed in section 3 and objectives for the next sixteenth meeting were described in Annex 1 in Document [5/242](http://www.itu.int/md/R12-SG05-C-0242/en), respectively.

No comments and questions were provided to his report.

### 7.3.2 Draft Recommendations

**Document** [**5/221**](http://www.itu.int/md/R12-SG05-C-0221/en) **- Draft revision of Recommendation ITU-R M.1544-0 - Minimum qualifications of radio amateurs**

Mr. Costa introduced the document. No comment was provided and the substance of the document was agreed by the meeting. It was agreed to apply the PSAA to this document.

**Document** [**5/222**](http://www.itu.int/md/R12-SG05-C-0222/en) **- Draft new Recommendation ITU-R M.[V2X] - Radio interface standards of vehicle-to-vehicle and vehicle-to-infrastructure communications for Intelligent Transport System applications**

Mr. Costa introduced the document and confirmed that there were no intellectual property issues. No comment was provided and the substance of the document was agreed by the meeting. It was agreed to apply the PSAA to this document.

### 7.3.3 Draft Reports

**Document** [**5/223**](http://www.itu.int/md/R12-SG05-C-0223/en) **- Draft revision Report ITU-R M.2228 - Advanced intelligent transport system radiocommunications**

Mr. Costa introduced the document. It was confirmed that the summary of revision in the first page would be removed when publishing the document. No further comment was provided, and the document was approved.

**Document** [**5/263**](http://www.itu.int/md/R12-SG05-C-0263/en) **- Draft new Report ITU-R M.[PPDR] - Radiocommunication objectives and requirements for Public Protection and Disaster Relief (PPDR)**

Mr. Costa introduced the document. No comment was provided, and the document was approved together with simultaneous suppression of [Report ITU-R M.2033](http://www.itu.int/pub/R-REP-M.2033), which is superseded by the new Report.

**Document** [**5/265**](http://www.itu.int/md/R12-SG05-C-0265/en) **- Draft new Report ITU-R M.[LOCAL\_COVERAGE] - Operational guidelines for the deployment of broadband wireless access systems for local coverage operating below 6 GHz**

Mr. Costa introduced the document. No comment was provided, and the document was approved.

### 7.3.4 Draft Questions

**Document** [**5/230**](http://www.itu.int/md/R12-SG05-C-0230/en) **- Draft revision of Questions**

Mr. Costa introduced the document, which contained fourteen draft revisions of Questions and one draft new Question for consideration. He noted that some of the revised Questions only had editorial changes and could be approved in this Study Group 5 meeting as editorial updates.

Mr. Costa also pointed out that the draft revision of Question ITU-R 242/5 “Reference radiation patterns of omnidirectional and sectoral antennas in point-to-multipoint fixed wireless systems for use in sharing studies” was undertaken by WPs 5A and 5C to include land mobile system antenna patterns, and this revised Question would become under the joint responsibility of both Working Parties. The United States questioned why WP 5D would not have joint possibility for this revised Question from the IMT perspective. Germany commented that, in the Working Group discussion within WP 5A, it was suggested that WP 5D should be involved in this revised Question. Based on this discussion, the meeting agreed to assign this revised Question to WP 5D as well.

The Chairman asked the meeting to consider the following five draft revisions of Questions and one draft new Question contained in Document [5/230](http://www.itu.int/md/R12-SG05-C-0230/en):

− Draft revisions of Q. ITU-R 1-5/5, Q. ITU-R 48-6/5, Q. ITU-R 209-4/5,

Q. ITU-R 241-2/5 and Q. ITU-R 242-2/5;

− Draft new Question ITU-R [THZ LAND MOBILE CHAR] .

No comment was provided and the substance of these Questions was agreed by the meeting. It was agreed to apply PSAA for these Questions.

For the following 9 Questions, the Chairman suggested to apply editorial updates in accordance with the procedure in Section 11 of Resolution ITU R 1-6. No comment was provided to his suggestion, and it was agreed to adopt this procedure for these Questions.

− Editorial revisions of Q. ITU-R 7-7/5, Q. ITU-R 37-6/5, Q. ITU-R 101-4/5,

Q. ITU-R 205-5/5, Q. ITU-R 212-4/5, Q. ITU-R 215-4/5, Q. ITU-R 238-2/5

Q. ITU-R 250-1/5 and Q. ITU-R 254/5.

Before closing the consideration of the outputs from WP 5A, Mr. Costa thanked all the participants in WP 5A and their hard work, in particular, the chairman of the Working Groups, the liaison Rapporteurs, and Rapporteurs for the handbook. He also expressed his sincere thanks to the Chairman for his valuable support. The Chairman expressed his sincere appreciation to excellent leadership and work by Mr. Costa since 2004, and thanked all the members within WP 5A.

## 7.4 Working Party 5C

### 7.4.1 Executive Report contained in Document [5/244](http://www.itu.int/md/R12-SG05-C-0244/en)

Mr. Charles Glass (Chairman, WP 5C) introduced his report with an editorial correction of the meeting number in section 4. Since the last meeting of Study Group 5 in November, 2014, WP 5C held its fifteenth meeting from 6-16 July 2015 in Bucharest, Romania. Mr. Glass expressed his warm thanks to the administration of Romania for hosting and wonderful support during the meeting. Executive summary of the results of this fifteenth meeting was detailed in section 4.

After the introduction of the report, China indicated that an editorial correction of the year of the meeting was required in the first line of the introduction section.

### 7.4.2 Draft Recommendations

**Document** [**5/227(Rev.1)**](http://www.itu.int/md/R12-SG05-C-0227/en) **- Draft revision of Recommendation ITU-R F.1247-3 - Technical and operational characteristics of systems in the fixed service to facilitate sharing with the space research, space operation and Earth exploration-satellite services operating in the bands   
2 025-2 110 MHz and 2 200-2 290 MHz**

Mr. Glass introduced the document. No comment was provided and the substance of the document was agreed by the meeting. It was agreed to apply the PSAA to this document.

**Document** [**5/228(Rev.1)**](http://www.itu.int/md/R12-SG05-C-0228/en) **- Draft revision of Recommendation ITU-R F.1509-2 - Technical and operational requirements that facilitate sharing between point-to-multipoint systems in the fixed service and the inter-satellite service in the band 25.25-27.5 GHz**

Mr. Glass introduced the document. No comment was provided and the substance of the document was agreed by the meeting. It was agreed to apply the PSAA to this document.

**Document** [**5/229(Rev.1)**](http://www.itu.int/md/R12-SG05-C-0229/en) **- Draft revision of Recommendation ITU-R F.1249-3 - Technical and operational requirements that facilitate sharing between point-to-point systems in the fixed service and the inter-satellite service in the band 25.25-27.5 GHz**

Mr. Glass introduced the document. No comment was provided and the substance of the document was agreed by the meeting. It was agreed to apply the PSAA to this document.

**Document** [**5/238**](http://www.itu.int/md/R12-SG05-C-0238/en) **- Draft revision of Recommendation ITU-R F.758-5 - System parameters and considerations in the development of criteria for sharing or compatibility between digital fixed wireless systems in the fixed service and systems in other services and other sources of interference**

Mr. Glass introduced the document.

The Russian Federation proposed to modify the sentence in *considering c)* as interference is created by stations or systems, but not by radiocommucation services themselves. It was agreed to modify the sentence editorially through consultation by Mr. Glass.

With this modification, the substance of the document was agreed by the meeting, and it was agreed to apply the PSAA to this document.

**Document** [**5/255**](http://www.itu.int/md/R12-SG05-C-0255/en) **- Draft new Recommendation ITU-R F.[FS DEPLOY] - Deployment scenarios for point-to-point systems in the fixed service**

Mr. Glass introduced the document and confirmed that there were no intellectual property issues.

The Russian Federation pointed out that similar modification would be required as was discussed for the previous document (Draft revision of Recommendation ITU-R F.758-5). It was agreed to modify the relevant parts editorially through consultation by Mr. Glass.

With this modification, the substance of the document was agreed by the meeting, and it was agreed to apply the PSAA to this document.

**Document** [**5/257**](http://www.itu.int/md/R12-SG05-C-0257/en) **- Draft revision of Recommendation ITU-R F.1777 - System characteristics of television outside broadcast, electronic news gathering and electronic field production in the fixed service for use in sharing studies**

Mr. Glass introduced the document. No comment was provided and the substance of the document was agreed by the meeting. It was agreed to apply the PSAA to this document.

### 7.4.3 Draft Reports

**Document** [**5/258**](http://www.itu.int/md/R12-SG05-C-0258/en) **-** **Draft new Report ITU-R F.[ENGSHAREDEPLOYMENT] - Sharing and compatibility issues between electronic news gathering and other systems in frequency bands allocated to the fixed, mobile and broadcasting services**

Mr. Glass introduced the document. The Chairman suggested refinement of the table of contents editorially after the meeting.

No further comment was provided and the document was approved.

### 7.4.4 Draft Questions

**Document** [**5/235**](http://www.itu.int/md/R12-SG05-C-0235/en) **- Draft new Question ITU-R [ABOVE 275 GHZ FIXED CHAR]/5 - Technical and operational characteristics of the fixed service in the frequency range 275-1 000 GHz**

Mr. Glass introduced the document. No comment was provided and the substance of the document was agreed by the meeting. It was agreed to apply the PSAA to this document.

**Document** [**5/236**](http://www.itu.int/md/R12-SG05-C-0236/en) **- Draft new Question ITU-R [HF ENVIRONMENT] /5 - Technical and operational principles for HF sky-wave communication stations to improve the HF environment**

Mr. Glass introduced the document. Mr. Glass also pointed that this Question should be brought to the attention of Study Group 6. The Russian Federation also pointed out that the Question should be brought to the attention of Study Group 3 as well. It was agreed to add a footnote to the title of this document, which bring the attention of these Study Groups.

The Russian Federation questioned an appropriateness of the title of this Question as how we might be able to improve the HF environment. Mr. Glass responded that the intent of this Question is to deal with manmade noise environment. Based on this discussion, it was agreed to modify the relevant parts editorially through consultation by Mr. Glass.

Israel pointed out Recommendation ITU-R P.372 should be referred to with regard to manmade noise. Iran commented that any Recommendations should not be referenced in the *recognizing* part. Based on the discussion, the meeting agreed to move *recognizing d), e), f) and g)* to the *noting* part and to add a new item addressing Recommendation ITU-R P.372.

With these modifications, the substance of this Question was agreed by the meeting, and it was agreed to apply the PSAA to this document.

**Document** [**5/260(Rev.1)**](http://www.itu.int/md/R12-SG05-C-0260/en) **- Status of the Questions within Working Party 5C**

Mr. Glass introduced the document. As some of the Questions had been already addressed in other documents, the following six Questions were reviewed by the meeting:

− Editorial revisions of Q. ITU-R 110-3/5, Q. ITU-R 246/5, Q. ITU-R 247-1/5,

Q. ITU-R 248/5, Q. ITU-R 252/5 and Q. ITU-R 253/5.

The meeting agreed to editorial updates of these Questions in accordance with the procedure in Section 11 of Resolution ITU R 1-6.

Before closing the consideration of the outputs from WP 5C, Mr. Glass announced that this would be his last time chairing WP 5C as he accepted a new position within his administration, which would limit his participation in the Study Groups; however, he would be seeing as a delegate in the higher level meetings in ITU-R. He expressed his sincere thanks to all of the delegates in WP 5C for their hard work. The Chairman thanked Mr. Glass for his leadership and contribution in WP 5C since 2007.

The Chairman indicated that, the successor of Mr. Glass may be appointed during the next RA and WRC period, at least on a provisional basis, by the next Study Group Chairman since the name of the WP Chairman would be needed in circulating the invitation letter for the WP meeting.

**8 Consideration of other inputs**

## 8.1 Liaison with other groups

### 8.1.1 Liaison with Study Group 1

**Document** [**5/195**](http://www.itu.int/md/R12-SG05-C-0195/en) **(SG 1) - Liaison statement for information to ITU-R Study Group 6 and ITU-T Study Group 15 (copy to ITU-R Study Groups 5 and 7 and ITU-D Study Group 2) (Question ITU-R 221/1) - Liaison activities with CENELEC**

As a Vice-chairman of Study Group 1, Dr. Mazar (Israel) explained the background of this liaison statement. As PLT may be operated in the frequency range of up to 1 GHz, it may interfere with the terrestrial applications including IMT and broadcasting systems operated below 1 GHz and this liaison statement was sent to draw the attention of ITU-R Study Group 6 and copy to ITU-R Study Group 5. This document was noted for information.

**Document** [**5/237**](http://www.itu.int/md/R12-SG05-C-0237/en) **(Chairman, SG 1) - Note to Chairmen of Study Group 5 - Suppression of Opinion ITU-R 95**

The Chairman explained that Study Group 5 had already agreed to suppress Opinion ITU-R 95 and Study Group 1 supported the same course of action. This document was noted.

### 8.1.2 Liaison with Study Group 4

**Document** [**5/250**](http://www.itu.int/md/R12-SG05-C-0250/en) **(Chairman, Study Group 4) - Note to Chairmen of Study Groups 1, 5 and 6 - Suppression of Opinion ITU-R 95**

The Chairman explained that this document which also dealt with the same topic as that in the previous document and Study Group 4 supported the suppression of Opinion ITU-R 95 as well.

This document was noted for information, and it was confirmed by the meeting that suppression of Opinion ITU-R 95 was agreed by all the relevant Study Groups.

**Document** [**5/261**](http://www.itu.int/md/R12-SG05-C-0261/en) **(WP 5C) - Reply liaison statement to Working Party 4C, Study Group 4 and Study Group 5 (with information to Working Parties 3M, 4A, 4B, 5A, 5B, 7A, 7B, 7C and 7D) - WRC-15 agenda item 1.10**

**Document** [**5/262**](http://www.itu.int/md/R12-SG05-C-0262/en) **(WP 5C) - Reply liaison statement to Working Party 4A, Study Group 4 and Study Group 5 - WRC-15 agenda item 1.8**

Mr. Glass introduced these documents.

The first document was a reply liaison statement to WP 4C from WP 5C which was brought to the attention of Study Groups 5 and 4 as well because there was a request to resolve an issue of recently approved Report ITU-R M.[MSS SHARE] at Study Group 4 addressing sharing studies related to WRC-15 agenda item 1.10. More specifically, the liaison statement was requesting that the Chairman of Study Group 5, with concurrence of the Chairman of Study Group 4, to include a footnote to the title of the Report, before its formal publication by BR. The footnote states “This report contains new studies based on late input from administrations without opportunity to seek the comment of concerned working parties as the expert groups for the services involved.”

The second document was a reply liaison statement to WP 4A from WP 5C, which was brought to the attention of Study Groups 5 and 4 as well because there was a request to resolve an issue of recently approved Report ITU-R S.[ESV] at Study Group 4 addressing sharing studies related to WRC-15 agenda item 1.8. More specifically, this liaison statement pointed out that WP 4A did not fully take into account the views from WP 5C in the development of the final Report. WP 5C is of the view that such a result does not conform to the agreement between the chairs of Study Groups 4 and 5 for consideration of approval for documents of joint concern to both groups, and should not become a precedent in the future work of the two Study Groups.

Iran supported the views expressed by Mr. Glass and explained his concerns in details with regard to Report ITU-R S.[ESV].

The Chairman proposed to send a note to the Chairman of Study Group 4 after this meeting in consultation with Mr. Glass, which summarizes the issues raised in Documents 5/261 and 262 and points raised by Iran. The meeting agreed to this course of action.

### 8.1.3 Liaison with Study Group 6

**Document** [**5/216**](http://www.itu.int/md/R12-SG05-C-0216/en) **(SG 6) - Question ITU-R 140/6 - Global platform for the broadcasting service**

The Chairman introduced this document.

The United States proposed to send a liaison statement in which Report ITU-R M.[IMT.AV] was brought to the attention of Study Group 6 considering that the Report would be relevant to the items addressed in this new Question. Iran expressed concerns to send a liaison statement to Study Group 6 using an official document. Israel supported the proposal from the US. Canada also supported the proposal from the US and suggested sending a note from the BR as an alternative method. Iran responded that there was no need to send anything to Study Group 6 as the approval of the Report M.[IMT.AV] could be noticed through the summary record of this meeting.

After the discussion, based on the suggestion by the Chairman, the meeting agreed to put a footnote to the title of the Report, which brought to the attention of Study Group 6, but not to send anything to Study Group 6. Mr. Blust also commented that finalization of that Report had been already communicated to WPs 6A and 6B through a liaison statement from WP 5D produced at its last meeting.

### 8.1.4 Liaison with the groups in ITU-T

**Document** [**5/191**](http://www.itu.int/md/R12-SG05-C-0191/en) **(ITU-T Study Group 16) - Liaison statement on ITU-R Study Groups of interest to ITU-T Study Groups**

**Document [5/196](http://www.itu.int/md/R12-SG05-C-0196/en) (ITU-T TSAG) - Liaison statement on ITU Inter-Sector coordination**

The Chairman introduced these documents.

Canada pointed out that, in the Attachment 2 to Document 5/196, information on activities of   
ITU-T Study Group 5 were missing, i.e., on-going liaison activities between ITU-T Study Group 5 and the Working Parties of ITU-R Study Group 5. Iran indicated that as many of the topics proposed by the TSAG and TDAG were not agreeable, this issue had been already discussed in the last RAG meeting, and we should follow the modifications made by the RAG.

After the discussion above, as the Counsellor explained that BR had already commented on this list internally including the on-going activities between ITU-R Study Group 5 and ITU-T Study   
Group 5, the Chairman suggested that the point raised by Canada was recorded in the summary record and the Secretariat will take an appropriate action on this matter.

**Document** [**5/220**](http://www.itu.int/md/R12-SG05-C-0220/en) **(ITU-T SG 9) - Liaison statement on new versions of the Access Network Transport (ANT) standardization overview and work plan (reply to SG 15 LS216)**

**Document** [**5/246**](http://www.itu.int/md/R12-SG05-C-0246/en) **(ITU-T SG 15) - Liaison statement on the latest versions of the Access Network Transport (ANT), Smart Grid and Home Network Transport (HNT) standards overviews and work plans**

**Document** [**5/247**](http://www.itu.int/md/R12-SG05-C-0247/en) **(ITU-T SG 15) - Liaison statement on the latest versions of the Access Network Transport (ANT) standards overview and work plan**

**Document** [**5/248**](http://www.itu.int/md/R12-SG05-C-0248/en) **(ITU-T SG 15) - Liaison statement on the latest version of the Home Network Transport (HNT) standards overview and work plan**

The Chairman introduced these documents and commented that Working Party 5A made liaison activities with ITU-T Study Group 15. These documents were noted for information.

**Document** [**5/243**](http://www.itu.int/md/R12-SG05-C-0243/en) **(WP 5B Chairman) - Section 2.1.7 Liaison with ITU-T**

The Chairman explained the concerns raised by WP 5B regarding recent activities of the ITU-T for certain topics, which was similar situation in a few years ago, and suggested sending a letter to the Director of the BR on this matter again.

Iran explained that the issue of coordination among sectors in ITU was raised in the Plenipotentiary Conference and a coordination team was established. Iran suggested drawing the attention of the chairman of the team to these issues raised by Working Parties in ITU-R Study Group 5 rather than sending a letter to the Director of the BR again.

The Chairman proposed to develop a separate text as proposed from WP 5B in the summary record, as follows, and the Secretariat would convey this information to the Director of the BR:

“During this study cycle WP 5B have received a number of liaison statements either directly from ITU-T or through SG 1. WP 5B have ensured that they have responded to all of these liaison statements with appropriate advice. However it has become increasing obvious that our advice is being ignored and in at least one case, on issues that fall under the purview of the   
ITU-R as defined in Article 11 of the Convention, replicating the work of WP 5B.”

The meeting agreed this course of action. Based on the suggestion from the Russian Federation, the meeting also agreed to that the information is brought to the attention of the representatives of the RAG to the coordination team (Mr. Nalbandian and Mr. Major).

### 8.1.5 Liaison with the groups in ITU-D

**Document** [**5/188**](http://www.itu.int/md/R12-SG05-C-0188/en) **(ITU-D SG 2) - Liaison statement from ITU-D Study Group 2 Question 7/2 to ITU-T Study Group 5 , ITU-R Study Group 1, ITU-R Study Group 5, ITU-R Study Group 6 and their relevant Working Parties on Q7/2 work items for the 2014 - 2018 study period**

Israel introduced the document. This document was noted for information.

**Document** [**5/189**](http://www.itu.int/md/R12-SG05-C-0189/en) **(ITU-D SG 1) - Liaison statement from ITU-D Study Group 1 Question 8/1 to ITU R SG 1 WP 1B, ITU-R SG 5 WP 5D, ITU-R SG 6 WP 6A, ITU-T SG 9, ITU-T SG 16 on ITU-D work on transition from analogue to digital broadcasting 2014-1017**

The Chairman introduced the document. This document was noted for information.

**Document** [**5/264**](http://www.itu.int/md/R12-SG05-C-0264/en) **(WP 5A) - Liaison statement to ITU-D/ITU-R Joint Group for Resolution 9 on work items during the 2014-2017 study period (copy for information to ITU-R SG 1, SG 5, SG 6 and their relevant working parties on work items pertinent to WTDC Resolution 9)**

Mr. Costa (Chairman, WP 5A) introduced this document. This document was noted for information.

## 8.2 Intersectoral activity (Human hazard)

**Document** [**5/232**](http://www.itu.int/md/R12-SG05-C-0232/en) **(Israel (State of)) - RF Human hazards - ITU intersectoral activities; safety distance around a terrestrial station**

Israel introduced the document with the following explanations: [Resolution 176](http://www.itu.int/en/ITU-T/emf/Documents/ITU_resolution_176.docx) (Rev. Busan, 2014) *Human exposure to and measurement of electromagnetic fields* indicates specifically that ITU-T is responsible for human hazard in front of WHO. Different limits are employed in different countries. Relevant activities are also on-going in ITU-D and ITU-T.

The Chairman thanked the contribution of Mr. Mazar, Israel, and asked him to continue a contact point in Study Group 5 on this topic.

## 8.3 Other issues

**Document** [**5/211**](http://www.itu.int/md/R12-SG05-C-0211/en) **(Indonesia (Republic of)) - Contribution paper for improvement on tariff and interconnection regulation related with Radiocommunication Network**

There was no representative from Indonesia to present the document. This document was noted for information.

**Document** [**5/234**](http://www.itu.int/md/R12-SG05-C-0234/en) **(Israel (State of)) - Actions proposed to RA-15 on the ITU-R Resolutions of concern to Study Group 5, Revision of Resolution ITU-R 60 - Reduction of energy consumption for environmental protection and mitigating climate change by use of ICT/radiocommunication technologies and systems**

Israel introduced the document.

The Chairman commented that as many Study Groups are relevant to the substance of this Resolution Study Group 5 was not ready to produce an output based on the proposal. Therefore,   
the Chairman suggested Israel submitting a contribution to the Radiocommunication Assembly directly.

Canada agreed with the Chairman’s suggestion and also provided observation that aspects of resiliency of networks should be taken into account for infrastructure sharing. AT&T indicated that infrastructure sharing is a complex issue, which has many dimensions and factor to be taken into account, and some cares should be taken in the language used for revision of this Resolution.

Israel agreed to submit a contribution to the Radiocommunication Assembly from Israel rather than from Study Group 5.

# 9 Status of Study Group 5 texts and related WRC Resolutions

**Document** [**5/1(Rev.1)**](http://www.itu.int/md/R12-SG05-C-0001/en) **- Questions assigned to Radiocommunication Study Group 5**

**Document** [**5/2(Rev.3)**](http://www.itu.int/md/R12-SG05-C-0002/en) **- Assignment of the Study Group 5 texts to the Working Parties**

**Document** [**5/5**](http://www.itu.int/md/R12-SG05-C-0005/en) **- WRC Resolutions and Recommendations related to the work of Study   
Group 5**

The Chairman explained that these documents would be revised taking into account the results of this meeting, and the Counsellor would produce revised documents in early 2016. The Chairman asked the members to contact to the Counsellor after the meeting if there are any editorial matters or comments on these documents.

# 10 Schedule of meetings

The Chairman explained planned schedule of the meetings in 2016 shown in the table below.

It was also noted that these schedules are provisional, and an invitation letter will be published around three months before when the schedules are confirmed.

|  |  |  |  |
| --- | --- | --- | --- |
| **Dates** | | **Meeting** | **Remarks** |
| 23 Feb 2016 | 2 Mar 2016 | WP 5D |  |
| 9 May 2016 | 20 May 2016 | WP 5A, WP 5B, WP 5C |  |
| 20 May 2016 (\*) | | SG 5 | (\*) Date can change to 9 May,  if necessary |

# 11 Any other business

The United States thanked the Chairman for his two terms of service as a Chairman of Study Group 5, noting his tireless service and attention to details which has made Study Group 5 run so smoothly for the last few years.

Japan expressed its gratitude for the Chairman’s efforts since 1980 through contributions for many meetings and expressed its sincere respects for his leadership and work. Saudi Arabia extended its appreciation to the Chairman for all his valuable efforts in the past periods and valuable contribution to this Study Group.

The Chairman appreciated for these kind words from the administrations. He also thanked all the participants for constructive discussion towards consensus and cooperation during this meeting. In addition, he expressed sincere thanks for supports and assists by many organizations and people to serve the Chairman of Study Group 5 since 2007. He expressed his personal thanks to the Working Parties Chairmen, Mr. José Costa, Mr. John Mettrop, Mr. Charles Glass, and Mr. Stephen Blust for their excellent leadership to manage their groups. His appreciation was conveyed to the Secretariat, Mr. Colin Langtry, Head of SG Department, Counsellors, Mr. Sergio Buonomo, Mr. Vadim Nozdrin and Mr. David Botha for their advice and support. Finally he thanked the interpreters for their excellent and professional work.

He wished everyone a safe trip to home country and the meeting closed (with applause) at 1215 Central European Time.

Akira Hashimoto Amy L. Sanders (USA),  
Chairman, Study Group 5 Hiroyuki Atarashi (J)  
 Rapporteurs

ANNEX 1

Statements of the Russian Federation on certain documents

Document 5/252: Draft New Recommendation ITU-R M.[AMS-CHAR 15GHz]

**Written explanation in accordance to ITU-R Res.1-6 to object the adoption:**

The Russian Federation objects to consideration of Draft New Recommendation   
ITU-R M.[AMS-CHAR 15GHz] at the SG 5 meeting and sending this draft for adoption and approval by correspondence because aeronautical telemetry systems with recommended characteristics will impose undue constraints on existing and future systems in the fixed and mobile networks due to unlimited use of retransmissions between aircrafts, which creates an ambiguity in the coordination of such systems with other uses in the band. Therefore, it is necessary to further describe and investigate aforementioned usage scenario in WP 5B before considering it adoption and approval at the future meeting of SG 5.

Document 5/256: Draft New Recommendation ITU-R M.[VDES]

**Written explanation in accordance to ITU-R Res.1-6 to object the adoption:**

Draft New Recommendation ITU-R M.[VDES] is developed for new VHF data exchange system (VDES) which integrates the functions of VHF data exchange (VDE), application specific messages (ASM) and the automatic identification system (AIS) in the VHF maritime mobile band  
(156.025-162.025 MHz). VDE part propose use both terrestrial (maritime) segment over already allocated and identified frequency bands and satellite segment. Channels identification for the satellite part of VDE should be done within (maritime) mobile satellite service allocation, which is still subject to the decisions of WRC-15. Therefore the approval of this Recommendation will prejudge the result of WRC-15 on AI 1.16 and should be postponed until the next SG 5 meeting, taking into account the outcome of WRC-15.

Document 5/251: Draft New Report ITU-R M.[VDES-SELECT]

**The statement for the inclusion into the Summary Record:**

The Russian Federation is of the view that the main contents of the Draft New Report   
ITU-R M.[VDES-SELECT] are already incorporated in the CPM-15 Report on AI 1.16 and there is no merit in creating a new Report, which will become obsolete just after WRC-15 decision. In addition, the channels for satellite applications incorporated in the Draft New Report   
ITU-R M.[VDES-SELECT] does not match the existing allocations in these frequency bands and may prejudge the decisions of WRC-15. Therefore, the Russian Federation is of the view that it would be more appropriate to attach the draft Report ITU-R M.[VDES-SELECT] to the Summary Record of the tenth meeting of Study Group 5 as information reference for WRC-15 discussions.

ANNEX 2

Joint statement of the People’s Republic of China and the Russian Federation   
on the draft revision of Recommendation ITU-R M.1036-4   
(Document 5/213rev.1)

**Written explanation in accordance to ITU-R Res.1-6 to object the consideration of the adoption and approval:**

The People’s Republic of China and the Russian Federation object the consideration of the draft revision of the Recommendation ITU-R M.1036-4 at the SG 5 meeting and submitting this draft to the Radio Assembly 2015 because the studies on this subject have not been completed. Further details concerning this issue are specified below. In the very recent, WP 5D finalized the draft revision of Recommendation ITU-R M.1036‑4 which adds the whole or part of the bands 1 980-2 010 MHz and   
2 170-2 200 MHz into the frequency arrangements for the terrestrial component of IMT, and raised the draft revision to SG 5 for further consideration.

The bands 1 980-2 010 MHz and 2 170-2 200 MHz are identified for the satellite component of IMT in according to Radio Regulations through its Resolutions. In order to realize the complete IMT vision by universal coverage and global roaming, the satellite component is in its irreplaceable position and takes the lead in emergency and disaster relief situations especially when the terrestrial component breaks down. Under current frequency allocation circumstance, spectrum resource available for deploying mobile-satellite systems is under severe scarcity. While other identified bands have been already intensively used by existing MSS systems in some countries, the 1 980-2 010 MHz and   
2 170-2 200 MHz bands are the only suitable resource for the satellite component of IMT. In this way, harmonious developments should be achieved between IMT terrestrial and satellite components particularly on these two bands.

Preliminary sharing and compatibility studies in WP 4C show that co-coverage, co-frequency compatibility/sharing between the terrestrial and satellite components of IMT around the bands are not feasible. Due to the lack of the applicable coordination threshold and appropriate regulatory provisions in Radio Regulations, it is very difficult to coordinate between some administrations the usage of the IMT satellite and terrestrial systems in the above two bands. It should be noted that if the proposed revision on the use of the 1 980‑2 010 MHz and 2 170-2 200 MHz frequency bands in Recommendation ITU-R M.1036 is approved before the above problems are resolved, more and more interference between IMT terrestrial and satellite systems will occur and result in a heavy burden of coordination between administrations, who want to deploy IMT terrestrial or satellite systems.

In addition, it is worth to note that Recommendation ITU-R M.1036 states that one of the objectives of making frequency arrangements is to minimize the impact on other systems and services within the bands identified for IMT, which makes the aforementioned issues relevant to the revision of Recommendation ITU-R M.1036. In this regards, some administrations consider that sharing and compatibility aspects should be taken into accounts before developing the frequency arrangements for IMT terrestrial component. Moreover, the harmonization of frequency arrangements within the bands 1 980‑2 010 MHz and 2170-2200 MHz for the terrestrial component of IMT prior to sharing/compatibility studies and development of coordination procedures with the satellite component of IMT may jeopardize previous efforts of the ITU-R in creating and developing the satellite component of IMT. The importance of this issue has been already recognized by the BR Director and he will report on the observed difficulties to WRC-15. It is expected that WRC-15 will provide its recommendations on the issue.

In the whole course of the Recommendation revision, these issues also received much attention from relevant study groups and working parties. In the liaison statement to WP 5D (Doc. [5/194](http://www.itu.int/md/R12-SG05-C-0194/en)) WP 4C expressed similar concerns and disagreement with the inclusion of these bands 1 980-2 010 MHz and 2 170-2 200 MHz in the revision of the Recommendation ITU-R M.1036-4 before completing the compatibility/sharing studies. This view has been also supported by SG 4 in the liaison statement to   
SG 5 (Doc. [5/212](http://www.itu.int/md/R12-SG05-C-0212/en)). It is stated by SG 4 that only through joint studies could the revision of Recommendation [ITU-R M.1036-4](http://www.itu.int/rec/R-REC-M.1036/en) include any additional part of the bands 1980-2010 MHz and   
2170-2200 MHz.

Based on above considerations, the People’s Republic of China and the Russian Federation are both of the view that the inclusion of new frequency arrangements B6 and B7 and the extension of existing arrangements B3 and B5 within the draft revision of Recommendation ITU-R M.1036-4 is premature and should be postponed until aforementioned issues are resolved within ITU-R and in accordance with possible guidance from WRC-15. Meanwhile, the People’s Republic of China and the Russian Federation agree with SG 4’s view that such revision of Recommendation ITU-R M.1036 in the future should be adopted and approved under the joint purview of the SG 4 and SG 5. Nevertheless, it is proposed that the draft revision of Recommendation ITU-R M.1036-4 could be considered for adoption and approval without modifications proposed for the bands 1 980‑2 010 MHz and 2 170-2 200 MHz.

ANNEX 3

Statement of the Russian Federation on the draft revision of   
Recommendation ITU-R M.[BSMS700] (Document 5/214)

**Written explanation to object the consideration of the draft new Recommendation ITU-R M.[BSMS700]:**

Russian Federation objects to consideration of the draft new Recommendation ITU-R M.[BSMS700] at the SG 5 meeting and submitting this draft to the Radio Assembly 2015 because the studies on this subject have not been completed. Further details concerning deficiencies in the studies are specified below.

In the *recommends* part of the new proposed Recommendation ITU-R M.[BSMS700] two levels of   
out-of-band emissions (be more precise “unwanted emissions”) from IMT mobile terminals in the frequency band below 694 MHz for the protection of exiting services are proposed. However, these two levels proposed in the draft Recommendation do not fully address protection of existing services, having allocations below 694 MHz and do not provide clear “guidance to administrations on specific out-of-band emission (OOBE) level of IMT mobile stations operating in the frequency band 694-790 MHz”. The content of this draft is not in consistency with the title and the scope, which claim that the purpose is “protection of existing services in Region 1 in the frequency band below 694 MHz”. For example *recommends* 1 and 2 of this draft Recommendation contradict each other providing different levels to protect systems of existing services without explaining how it relates to the protection of other services or interference potential into receivers.

From the text of the new draft Recommendation ITU-R M.[BSMS700] it is impossible to derive for which services the protection has been recommended, even though the proposed values have been originally considered within JTG 4-5-6-7 only for broadcasting service. It is necessary to further and properly address the protection of stations of the broadcasting service in close collaboration with WP 6A and SG 6 to resolve all missing elements. Further studies are required to address the protection of several services having allocations in the frequency band below 694 MHz. According to §6.1.2 NOTE 3 of Resolution ITU-R 1-6 “Study Groups developing Recommendations that include sharing criteria for radiocommunication services must obtain agreement, prior to their adoption, of the Study Groups responsible for those services”. These further studies must be carried out in close collaboration with the relevant Study Groups/Working Parties.

Furthermore, the draft new Recommendation ITU-R M.[BSMS700] does not provide any additional type of information on unwanted emissions comparing with Recommendation ITU-R M.2071 on generic unwanted emission characteristics of mobile stations using the terrestrial radio interfaces of IMT-Advanced. Moreover, Recommendation ITU-R M.2071 is being developed in more detailed and constructive manner involving consultation with relevant standardization organizations. Having two ITU-R Recommendations providing guidance on the same issues may lead to duplication and may create inconsistencies between them in the future.

It is should be noted that the draft new Recommendation ITU-R M.[BSMS700] that has significant number of not-resolved technical issues and shouldn’t be even considered by RA-15 in accordance with Resolution ITU-R 1-6. As WP 5D or SG 5 has no mandate to develop ITU-R Recommendations or Reports in relation to WRC-15 AI 1.2 the consideration of the draft new Recommendation   
ITU-R M.[BSMS700] is subject to §10.2.1.2 b) of Resolution ITU-R 1-6. In accordance with this paragraph the draft new Recommendation ITU-R M.[BSMS700] could be sent for the consideration of RA-15 only “with sufficient evidence reached by consensus that the technical objection has already been adequately addressed”, which hasn’t been done by WP 5D or SG 5 at all.

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