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| **Radiocommunication Study Groups** |  |
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|  | **Document 5A/421-E** |
| **23 December 2013** |
| **English only** |
| Chairman, Working Party 5A |
| report on the TWELFtH meeting of working party 5a |
| (Geneva, 18-28 November 2013) |

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Annexes

[1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N01!MSW-E) Working Party 5A Management

[2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N02!MSW-E) Consolidation of texts approved by Working Party 5A

[3](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N03!MSW-E) Consolidation of reports from the Working Groups of Working Party 5A (Source: Docs. 5A/TEMP/180, 184R1, 191, 193, 196, 200 and 220)

[4](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N04!MSW-E) Working document towards the draft CPM text for WRC-15 agenda item 1.4
(Source: Doc. 5A/TEMP/165)

[5](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N05!MSW-E) Work plan for WRC-15 agenda item 1.4 (Source: Doc. 5A/TEMP/197)

[6](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N06!MSW-E) Working document towards the preliminary draft CPM text for WRC-15 agenda
item 1.3 (Source: Doc. 5A/TEMP/163R1)

[7](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N07!MSW-E) Work plan for WRC-15 agenda item 1.3 (Source: Doc. 5A/TEMP/185R1)

[8](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N08!MSW-E) Draft CPM text for WRC-15 agenda item 1.18
(Source: Doc. 5A/TEMP/198)

[9](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N09!MSW-E) Work plan for WRC-15 agenda item 1.18 (Source: Doc. 5A/TEMP/199)

[10](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N10!MSW-E) Working document towards a preliminary draft new Report ITU-R M.[5 MHz COMPAT] - Compatibility analysis of possible amateur systems with fixed, land mobile, maritime mobile and radiolocation services in the frequency band 5 250-5 450 kHz and the aeronautical mobile service in an adjacent band
(Source: Doc. 5A/TEMP/195)

[11](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N11!MSW-E) Preliminary draft revision of Recommendation ITU-R M.1076 “Wireless communication systems for persons with impaired hearing”
(Source: Doc. 5A/TEMP/157)

[12](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N12!MSW-E) Working document on operational guidelines for the deployment of broadband mobile systems for local coverage in the frequency bands below 6 GHz
(Source: Doc. 5A/TEMP/182R1)

[13](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N13!MSW-E) Preliminary draft revision of Recommendation ITU-R M.2003 “Multiple gigabit wireless systems in frequencies around 60 GHz” (Source: [Annex 17](https://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N17!MSW-E) to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306))

[14](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N14!MSW-E) Preliminary draft revision of Report ITU-R M.2227 “Multiple gigabit wireless systems in frequencies around 60 GHz” (Source: [Annex 18](https://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N18!MSW-E) to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306))

[15](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N15!MSW-E) Preliminary draft revision of Recommendation ITU-R M.2009 - Radio interface standards for use by public protection and disaster relief operations in some parts of the UHF band in accordance with Resolution 646 (Rev.WRC-12)
(Source: Doc. 5A/TEMP/159R1)

[16](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-421!N16!MSW-E) Working document toward a preliminary draft new Report ITU-R M.[PPDR] - Public protection and disaster relief communications (Source: Doc. 5A/TEMP/190)

[17](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N17!MSW-E) Preliminary draft new Recommendation ITU-R M.[MS 14.5-15.35 CHAR] “Characteristics of and protection criteria for systems operating in the mobile service in the frequency range 14.5-15.35 GHz” (Source: Doc. 5A/TEMP/170)

[18](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N18!MSW-E) Working document towards a preliminary draft revision of Recommendation ITU-R M.1824 “System characteristics of television outside broadcast, electronic news gathering and electronic field production in the mobile service for use in sharing studies” (Source: Doc. 5A/TEMP/172)

[19](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N19!MSW-E) Working document toward a preliminary draft new Recommendation ITU-R M.[V2X] - Radio interface standards of vehicle to vehicle and vehicle to infrastructure communications for intelligent transport systems applications (Source: Doc. 5A/TEMP/174R1)

[20](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N20!MSW-E) Preliminary draft new Report ITU-R M.[LMS.CRS2] - [Cognitive radio systems [(CRS) applications] in the land mobile service] (Source: Doc. 5A/TEMP/192R1)

[21](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N21!MSW-E) List of output documents

**Annexes from previous WP 5A Chairman’s Reports that are being carried forward:**

[Annex 19](https://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N19!MSW-E) to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306): Working document toward a preliminary draft revision of Recommendation ITU-R M.2015 - Frequency arrangements for public protection and disaster relief radiocommunication systems in UHF bands in accordance with Resolution **646 (Rev.WRC-12)**

[Annex 20](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N20!MSW-E) to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198/en): Working document towards a preliminary draft revision of Report ITU R M.2228 - Advanced intelligent transport systems (ITS) radiocommunications

[Annex 25](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0079!N25!MSW-E) to [Doc. 5A/79](http://www.itu.int/md/R12-WP5A-C-0079/en): Working document towards a preliminary draft revision of Recommendation ITU-R M.1797 / draft new Recommendation ITU-R M.[5A/VOC] - Vocabulary of terms for the land mobile service.

**Management documents referred to in the Report:**

List of input documents: [Doc. 5A/410(Rev.1)](http://www.itu.int/md/R12-WP5A-C-0410)

Final list of participants: [Doc. 5A/420](http://www.itu.int/md/R12-WP5A-C-0420)

# 1 Introduction

Working Party 5A (WP 5A) held its twelfth meeting from 18-28 November 2013 in Geneva, chaired by José Costa (Canada). The meeting participants (see list in [Doc. 5A/420](http://www.itu.int/md/R12-WP5A-C-0420)) included 196 participants from 43 countries representing 41 administrations, 4 registered operating agencies, 14 scientific or industrial organizations, 3 regional and other international organizations, one regional telecommunication organization, one other entity dealing with telecommunications, one academia and the BR. WP 5A held three plenary sessions during the meeting period (on 18, 22, and 28 November 2013).

The meeting dealt with 114 input documents (see list in [Doc. 5A/410(Rev.1)](http://www.itu.int/md/R12-WP5A-C-0410)) and upon their consideration the meeting prepared 47 output temporary documents (see list in [Annex 21](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N21!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421)). The Chairman’s Report is in [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en).

Document [5A/418](http://www.itu.int/md/R12-WP5A-C-0418) (WP 5C) arrived on the last day of the 12th meeting and it will be considered at the 13th meeting of WP 5A. [Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N01!MSW-E) contains the management aspects of WP 5A, including a summary of the status of the texts that are the responsibility of WP 5A and the use of electronic facilities.

The Chairman’s Report of the eleventh meeting of WP 5A ([Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306)) was adopted, including the objectives for the 12th meeting as presented in Section 4 of [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306).

The structure of WP 5A for this meeting was also adopted as presented in Section 2.2 of Annex 1 to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306).

The Chairman asked the meeting participants to review the list of contacts that appears in Section 4 of Annex 1 to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306) and inform him of any necessary changes (the final list appears in Section 4 of the updated [Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N01!MSW-E) ([Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421)) and updates between meetings are maintained by the BR and the Chairman of WP 5A). The Chairman indicated this list showing the contacts by topics is used for all liaison statements to external organizations on those topics and the e-mail distribution lists are generated automatically from it.

The chairman of WP 5A pointed to the results of the 17th meeting of Global Standards Collaboration (GSC-17) and the link to the [Resolutions](http://www.tta.or.kr/English/new/external_relations/gsc17_resolution.jsp) has been included in the WP 5A web page.

The results of the Joint IMO/ITU experts group on maritime radiocommunication matters were noted ([Doc. 5A/353](http://www.itu.int/md/R12-WP5A-C-0353)) and the WP 5A working groups responsible for WRC-15 agenda items were encouraged to consider the document.

The chairman of WP 5A informed the meeting that in October he met with Patrick Gordon, the coordinator of the [Sub-Working Group on Emergency Telecommunications](http://www.humanitarianinfo.org/iasc/pageloader.aspx?page=content-subsidi-common-default&sb=13) (WGET), in his office at the U.N., to discuss what to do with the WGET frequencies in [Report ITU-R M.2033](http://www.itu.int/pub/R-REP-M.2033) “Radiocommunication objectives and requirements for public protection and disaster relief”. The WGET frequencies are listed in Annex 3 of this ITU-R Report, entitled “Narrowband frequencies for inter-agency coordination and safety and security communications in international humanitarian assistance presently in use” and perhaps the information contained in this Annex 3 would be accessible better in a U.N. web page.  However, the coordinator of the WGET thought that the [actions from Resolution **647(Rev. WRC-2012)**](http://www.itu.int/ITU-R/index.asp?category=information&rlink=res647&lang=en) supersede what the WGET was doing in terms of frequencies and explained that now there is a radio frequency and radio standards group under the U.N. [Emergency Telecommunications Cluster](http://ictemergency.wfp.org/web/ictepr/emergency-telecommunications-cluster) (ETC) for which the WFP (World Food Program) is the cluster lead.  Therefore, the issue of frequencies for emergency communications would now fall under the mandate of ETC rather than WGET.

The BR presented an information paper on the peer review of the spectrum management training programme ([Doc. 5A/INFO/5](http://www.itu.int/md/R12-WP5A-INF-0005/en)), and participants were invited to volunteer their expertise as appropriate.

[Doc. 5A/350](http://www.itu.int/md/R12-WP5A-C-0350) on the correspondence activity on the cross-border coordination Handbook was noted and was considered in the joint meeting with WP 5C (cf. [Section 3.6.1](#s361)). A new Question
ITU-R 136-2/6 “Worldwide broadcasting roaming” from SG 6 was noted in [Doc. 5A/345](http://www.itu.int/md/R12-WP5A-C-0345/en) and it was assigned to WG5A-2 for further discussion if needed.

The work program for the WP 5A meeting was adopted as presented in [Doc. 5A/ADM/18](http://www.itu.int/md/R12-WP5A-ADM-0018/en).

At the opening Plenary the Chairman drew the attention of the meeting to the WP 5A texts that are listed in Section 1 of Annex 1 to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306) and the [Guide to the use of ITU-R texts related to the land mobile service](http://www.itu.int/oth/R0A06000001/en), asking each Working Group to review the texts assigned to them. The Chairman pointed out the guidelines for the preparation of WP 5A texts in Section 2.3 of Annex 1 to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306) and the outline of the preparatory work for WRC-15 in Section 3 of Annex 1 to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306). The Chairman also pointed out the work on Vocabulary ([Annex 25](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0079!N25!MSW-E) to [Doc. 5A/79](http://www.itu.int/md/R12-WP5A-C-0079), [Res. 33-3](http://www.itu.int/pub/R-RES-R.33/en), [Res. 34-3](http://www.itu.int/pub/R-RES-R.34/en), [Res. 35-3](http://www.itu.int/pub/R-RES-R.35/en), and [Res. 36-3](http://www.itu.int/pub/R-RES-R.36/en)).

The BR presented[Doc. 5A/330](http://www.itu.int/md/R12-WP5A-C-0330) on the preparation of texts for the draft CPM report to WRC-15, which must be completed by 31 July 2014.

The chairman of WP 5A informed the meeting that he had been asked to present and lead the discussions on the WRC-15 agenda items that are the responsibility of WP 5A, at the 1st ITU Inter-regional Workshop on WRC-15 Preparation ([WRC-15-IRWSP-13](http://www.itu.int/go/ITU-R/wrc-15-irwsp-13)). The chairman provided the draft presentations on the Share Point for WG5A-3 (agenda item 1.3) and WG5A-1 (agenda item 1.4). Based on the comments received the final versions of these presentations are posted, respectively, at:

<http://www.itu.int/md/R12-WRC15.PREPWORK-C-0017/en>

<http://www.itu.int/md/R12-WRC15.PREPWORK-C-0018/en>

The Chairman of Study Group 5 requested a report by May 2014 on the progress of the studies requested in the ITU-R Resolutions ([Doc. 5A/352](http://www.itu.int/md/R12-WP5A-C-0352)) and a summary of the views of WP 5A on the experience and any additional comments for improvements of the demonstration version of the Recommendations database search facility, which is available at <https://extranet.itu.int/itu-r/rsg/docs/filter.aspx> ([Doc. 5A/354](http://www.itu.int/md/R12-WP5A-C-0354)). These requests have been added to the objectives for the fourteenth meeting of WP 5A (cf. [Section 4](#s4)).

The Liaison Rapporteurs presented their reports during the 3 Plenary sessions of WP 5A, including on ITS by Paul Najarian ([Doc. 5A/375](http://www.itu.int/md/R12-WP5A-C-0375)), on WWRF by Hitoshi Yoshino ([Doc. 5A/391](http://www.itu.int/md/R12-WP5A-C-0391)), on [Disaster Relief](http://www.itu.int/ITU-R/index.asp?category=information&link=emergency&lang=en) by Amy Sanders ([Doc. 5A/408](http://www.itu.int/md/R12-WP5A-C-0408)), on FC-AVA/JCA-AHF by Brian Copsey ([Doc. 5A/409](http://www.itu.int/md/R12-WP5A-C-0409/en)), on certain countries in Region 1 by Gabrielle Owen ([Doc. 5A/411](http://www.itu.int/md/R12-WP5A-C-0411/en)), on certain countries in Region 3 by Hitoshi Yoshino ([Doc. 5A/375](http://www.itu.int/md/R12-WP5A-C-0375/en)), and on certain countries in Region 2 by Brennan Price ([Doc. 5A/419](http://www.itu.int/md/R12-WP5A-C-0419)). At the second Plenary session, the Chairman of WP 5A informed the meeting that he made a presentation on the work on Cognitive Radio Systems in ITU-R, as contained in [Document 5A/INFO/7](http://www.itu.int/md/R12-WP5A-INF-0007/en).

On Monday, 18 November 2013, WP 5A held a successful seminar on “Cognitive Radio Systems and the use of White Spaces” from 14:00 to 19:00 hours; the programme and presentations are available at: <http://www.itu.int/en/ITU-R/seminars/rsg/RWP5A-2013/Pages/default.aspx>. The Summary Record of the WP 5A Seminar, including all the presentations, speaker biographies, and audio feeds, is in [Document 5A/INFO/8](http://www.itu.int/md/R12-WP5A-INF-0008/en).

# 2 Objectives and work programme for the twelfth meeting of WP 5A

The objectives for the meeting were adopted as set forth in the Chairman’s Report of the tenth meeting of WP 5A (Section 4 of [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306)) noting that need to consider also the proposals in the input contributions for the eleventh meeting.

With regard to the update of documents that are the joint responsibility of WPs 5A and 5C, the two Working Parties held a joint meeting and [Section 3.6.1](#s361) summarizes the results of the joint meeting. Future actions regarding future updates of documents that have a joint responsibility will be considered on a case-by-case basis depending on the input contributions and the nature of the proposed update.

The work was carried out within five Working Groups. The responsibilities for input contributions were assigned as per [Table 1](#t1), showing also the organization of the work for the meeting. (The documents in the rows “Reports” and “General” were assigned to all the Working Groups). In particular, [Doc. 5A/353](http://www.itu.int/md/R12-WP5A-C-0353) that includes views on many WRC-15 agenda items was assigned to the Working Groups dealing with WRC-15 preparations.

Several documents arrived during the meeting and were assigned to the relevant Working Groups: [Doc. 5A/413](http://www.itu.int/md/R12-WP5A-C-0413/en) (Chairman, WP 5C), [Doc. 5A/414](http://www.itu.int/md/R12-WP5A-C-0414/en) and [Doc. 5A/415](http://www.itu.int/md/R12-WP5A-C-0415/en) (WP 6A), [Doc. 5A/416](http://www.itu.int/md/R12-WP5A-C-0416/en) and
[Doc. 5A/417](http://www.itu.int/md/R12-WP5A-C-0417/en) (WP 5B) and [Doc. 5A/418](http://www.itu.int/md/R12-WP5A-C-0418/en) (WP 5C). Document [5A/418](http://www.itu.int/md/R12-WP5A-C-0418) (WP 5C) arrived on the last day of the 12th meeting and it will be considered at the 13th meeting of WP 5A.

The Working Groups prepared revised/new Recommendations, Reports, and liaison statements, and progress reports on the work. The detailed reports from the Working Groups are contained in [Annex 3](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0412!N03!MSW-E). The texts proposed by these Working Groups in TEMP documents ([Annex 21](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N21!MSW-E)) were considered by WP 5A and are either annexed to this Report for further work to be considered at future meetings of or were approved as liaison statements to other Groups or for submission to Study Group 5 ([Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N02!MSW-E)).

# **3 Executive summary of the results of the twelfth meeting**

## **3.1 Summary of documents approved by WP 5A**

The list of texts that are the responsibility of WP 5A has been updated in line with [Doc. 5/2(Rev.1)](http://www.itu.int/md/R12-SG05-C-0002), including the assignment of responsibilities to the Working Groups of WP 5A and identification of topics for the Recommendations and Reports ([Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N01!MSW-E)).

Working Party 5A approved a revision of the ITU-R Handbook for amateur and amateur-satellite services (Source: Doc. 5A/TEMP/166), which will replace the 2008 Edition:

<http://www.itu.int/en/publications/ITU-R/pages/publications.aspx?parent=R-HDB-52-2008&media=electronic>

The consolidation of all the texts approved by WP 5A, including the liaison statements and proposals to Study Group 5, appears in [Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N02!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en) for the tenth meeting.

## 3.2 Summary of proposals and documents submitted by Working Party 5A to Study Group 5

The summary of proposals and documents submitted by Working Party 5A to Study Group 5 are given in Section 2 of [Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N02!MSW-E).

## 3.3 Amateur and amateur-satellite services

The work on WRC-15 agenda item 1.4 was progressed; the draft CPM text and workplan for this agenda item appear in Annexes 4 and 5 of [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en), respectively. A working document toward preliminary draft new Report(s) on compatibility and spectrum occupancy was developed ([Annex 10](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N10!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)).

TABLE 1

Assignment of input contributions and organization of the work for the meeting

NOTE – Documents are posted at <http://www.itu.int/md/R12-WP5A-C/en>

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| **Working Party 5A (Chairman:** **José Costa****, Canada; Office: T078; Ext.: 5446)** |
| **Reports** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) (Chairman, WP 5A); [375](http://www.itu.int/md/R12-WP5A-C-0375/en) (ITS L.R.); [391](http://www.itu.int/md/R12-WP5A-C-0391/en) (WWRF L.R.); [408](http://www.itu.int/md/R12-WP5A-C-0408/en) (D.R. L.R.); [409](http://www.itu.int/md/R12-WP5A-C-0409/en) (FC-AVA/JCA-AHF L.R.); [410](http://www.itu.int/md/R12-WP5A-C-0410/en) (List of documents); [411](http://www.itu.int/md/R12-WP5A-C-0411/en) (L.R.#1); [375](http://www.itu.int/md/R12-WP5A-C-0375/en) (L.R.#3); [419](http://www.itu.int/md/R12-WP5A-C-0419/en) (L.R.#2) |
| **General** | [79](http://www.itu.int/md/R12-WP5A-C-0079) [Annex 25](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0079!N25!MSW-E) (WP 5A); [330](http://www.itu.int/md/R12-WP5A-C-0330/en) (Chairman, CPM-15); [352](http://www.itu.int/md/R12-WP5A-C-0352/en) (Chairman, SG 5); [353](http://www.itu.int/md/R12-WP5A-C-0353/en) (IMO); [354](http://www.itu.int/md/R12-WP5A-C-0354/en) (Chairman, SG 5); [5A/INFO/7](http://www.itu.int/md/R12-WP5A-INF-0007/en) (Chairman, WP 5A); [420](http://www.itu.int/md/R12-WP5A-C-0420/en) (Final list of participants) |
| **Working Group 1: Amateur Services (Chairman:** **Dale Hughes****, Australia)** |
| **AI 1.4 (~5300 kHz)** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 4](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N04!MSW-E) and [Annex 5](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N05!MSW-E) (WP 5A); [360](http://www.itu.int/md/R12-WP5A-C-0360/en) (USA); [366](http://www.itu.int/md/R12-WP5A-C-0366/en) (Canada); [383](http://www.itu.int/md/R12-WP5A-C-0383/en), [384](http://www.itu.int/md/R12-WP5A-C-0384/en) (Russian Federation); [418](http://www.itu.int/md/R12-WP5A-C-0418/en) (WP 5B) |
| **ITU-R Reports** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 10](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N10!MSW-E) (WP 5A); [321](http://www.itu.int/md/R12-WP5A-C-0321/en), [322R1](http://www.itu.int/md/R12-WP5A-C-0322/en) (WP 3L); [359](http://www.itu.int/md/R12-WP5A-C-0359/en) (USA); [367](http://www.itu.int/md/R12-WP5A-C-0367/en), [368](http://www.itu.int/md/R12-WP5A-C-0368/en) (Canada); [382](http://www.itu.int/md/R12-WP5A-C-0382/en) (Russian Federation); [389](http://www.itu.int/md/R12-WP5A-C-0389/en) (China); [400](http://www.itu.int/md/R12-WP5A-C-0400/en) (IARU) |
| **Amateur Handbook** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 11](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N11!MSW-E) (WP 5A) |
| **(AI 7; AI 9.1.8) & other** | *See AI 1.12 and AI 1.18 below* |
| **Working Group 2: Systems and standards (Chairman:** **Lang Baozhen****, China)** |
| **Wireless Gigabit Networks** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 17](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N17!MSW-E) and [Annex 18](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N18!MSW-E) (WP 5A) |
| **Broadband Wireless Access** | [311](http://www.itu.int/md/R12-WP5A-C-0311/en) (WP 5C); [325](http://www.itu.int/md/R12-WP5A-C-0325/en), [327](http://www.itu.int/md/R12-WP5A-C-0327/en) (WP 5D); [345](http://www.itu.int/md/R12-WP5A-C-0345/en) (SG 6); [378](http://www.itu.int/md/R12-WP5A-C-0378/en) (Japan) |
| **Update of Rep. ITU-R M.1051** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 12](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N12!MSW-E) (WP 5A); [364](http://www.itu.int/md/R12-WP5A-C-0364/en) (France); [377](http://www.itu.int/md/R12-WP5A-C-0377/en) (Japan) |
| **Update of Rec. ITU-R M.1450** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 15](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N15!MSW-E) (WP 5A) |
| **Update of Rec. ITU-R F.1763** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 16](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N16!MSW-E) (WP 5A); [365](http://www.itu.int/md/R12-WP5A-C-0365/en) (XGP Forum); [376](http://www.itu.int/md/R12-WP5A-C-0376/en) (Japan) |
| **AI 9.1.6 (Def. Res. 957)** | [318](http://www.itu.int/md/R12-WP5A-C-0318/en) (WP 1B) |
| **ITU-T (Energy, ANTS, etc.)** | [329](http://www.itu.int/md/R12-WP5A-C-0329/en) (ITU-T SG 15) |
| **Hearing aids and related** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 13](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N13!MSW-E) and [Annex 14](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N14!MSW-E) (WP 5A); [338](http://www.itu.int/md/R12-WP5A-C-0338/en) , [339](http://www.itu.int/md/R12-WP5A-C-0339/en) (ITU-T JCA-AHF); [356](http://www.itu.int/md/R12-WP5A-C-0356/en), [357](http://www.itu.int/md/R12-WP5A-C-0357) (USA) |
| **Working Group 3: PPDR (Chairman:** **Amy Sanders****, USA)** |
| **Update of Rep. ITU-R M.2033 / new Report** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 20](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N21!MSW-E), [Annex 21](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N21!MSW-E) and [Annex 22](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N22!MSW-E) (WP 5A); [332](http://www.itu.int/md/R12-WP5A-C-0332/en) (APT); [337](http://www.itu.int/md/R12-WP5A-C-0337/en) (3GPP TSG RAN); [346](http://www.itu.int/md/R12-WP5A-C-0346/en) (WP 5D); [355](http://www.itu.int/md/R12-WP5A-C-0355/en) (USA); [369](http://www.itu.int/md/R12-WP5A-C-0369/en) (Canada); [386](http://www.itu.int/md/R12-WP5A-C-0386/en) (CCSA); [387](http://www.itu.int/md/R12-WP5A-C-0387/en) (China); [394](http://www.itu.int/md/R12-WP5A-C-0394/en) (India); [399](http://www.itu.int/md/R12-WP5A-C-0399/en) (Germany); [402](http://www.itu.int/md/R12-WP5A-C-0402/en), [403](http://www.itu.int/md/R12-WP5A-C-0403/en) (Motorola Solutions) |
| **Update of Rec. ITU-R M.2009** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 17](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N17!MSW-E) (WP 5A); [370](http://www.itu.int/md/R12-WP5A-C-0370/en) (Canada) |
| **Update of Rec. ITU-R M.2015** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 19](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N19!MSW-E) (WP 5A) |
| **AI 1.3 (PPDR Res. 646)** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 6](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N06!MSW-E) and [Annex 7](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N07!MSW-E) (WP 5A); [372](http://www.itu.int/md/R12-WP5A-C-0372/en) (ATIS); [393](http://www.itu.int/md/R12-WP5A-C-0393/en) (India); [401](http://www.itu.int/md/R12-WP5A-C-0401/en) (Motorola Solutions); [404](http://www.itu.int/md/R12-WP5A-C-0404/en) (Israel) |
| **[AI 9.1.7] (E&DR Res. 647)** | [[1B/42](http://www.itu.int/md/R12-WP1B-C-0042/en) [Annex 12](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP1B-C-0042!N12!MSW-E)] |
| **Working Group 4: Interference and sharing (Chairman:** **Michael Kraemer****, Germany)** |
| **Sharing studies (general)** | [326](http://www.itu.int/md/R12-WP5A-C-0326/en) (WP 5D); [334](http://www.itu.int/md/R12-WP5A-C-0334/en) (SG 1); [347](http://www.itu.int/md/R12-WP5A-C-0347/en) (WP 5D); [396](http://www.itu.int/md/R12-WP5A-C-0396/en) (Ericsson); [417](http://www.itu.int/md/R12-WP5A-C-0417/en) (WP 5B) |
| **Update of Rep. ITU-R M.2116** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 19](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N19!MSW-E) (WP 5A) |
| **Cross-border handbook** | [350](http://www.itu.int/md/R12-WP5A-C-0350/en) (Chairman, JCG 5A/5C); [385](http://www.itu.int/md/R12-WP5A-C-0385/en) (Russian Federation) |
| **ENG** | [307](http://www.itu.int/md/R12-WP5A-C-0307/en), [310](http://www.itu.int/md/R12-WP5A-C-0310/en) (WP 5C); [373](http://www.itu.int/md/R12-WP5A-C-0373/en) (Canada); [413](http://www.itu.int/md/R12-WP5A-C-0413/en) (Chairman, WP 5C / Australia) |
| **ITU-T interference** | [314](http://www.itu.int/md/R12-WP5A-C-0314/en), [315](http://www.itu.int/md/R12-WP5A-C-0315/en), [316](http://www.itu.int/md/R12-WP5A-C-0316/en), [317](http://www.itu.int/md/R12-WP5A-C-0317/en) (WP 1A); [324](http://www.itu.int/md/R12-WP5A-C-0324/en) (WP 5D); [328](http://www.itu.int/md/R12-WP5A-C-0328/en) (ITU-T SG 15); [351](http://www.itu.int/md/R12-WP5A-C-0351/en) (ITU-T SG 9); [414](http://www.itu.int/md/R12-WP5A-C-0414/en), [415](http://www.itu.int/md/R12-WP5A-C-0415/en) (WP 6A) |
| **AI 1.1 (Res. 233)** | [312](http://www.itu.int/md/R12-WP5A-C-0312/en) (WP 5B); [323](http://www.itu.int/md/R12-WP5A-C-0323/en) (WP 5D); [331](http://www.itu.int/md/R12-WP5A-C-0331/en) (IMO); [348](http://www.itu.int/md/R12-WP5A-C-0348/en) (WP 5D); [349](http://www.itu.int/md/R12-WP5A-C-0349/en) (JTG 4-5-6-7); [374](http://www.itu.int/md/R12-WP5A-C-0374/en)-mitigation aspects (Cisco and Motorola Mobility); [398](http://www.itu.int/md/R12-WP5A-C-0398/en) (Intel) |
| **AI 1.2 (Res. 232)** |  |
| **AI 1.5 (UAS Res. 153)** |  |
| **AI 1.6 (FSS Res. 151, 152)** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 23](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N23!MSW-E) (WP 5A); [308](http://www.itu.int/md/R12-WP5A-C-0308/en) (WP 5C); [343](http://www.itu.int/md/R12-WP5A-C-0343/en) (WP 4A); [363](http://www.itu.int/md/R12-WP5A-C-0363/en) (USA) |
| **(AI 1.7) (FSS in ~5100 MHz)** |  |
| **AI 1.8 (ESV res. 909)** |  |
| **AI 1.9.1, 1.9.2 (FSS Res. 758)** | [313](http://www.itu.int/md/R12-WP5A-C-0313/en) (WP 5C); [344](http://www.itu.int/md/R12-WP5A-C-0344/en) (WP 4A) |
| **AI 1.10 (MSS Res. 234)** |  |
| **AI 1.11 (EESS Res. 650)** |  |
| **AI 1.12 (EESS Res. 651)** | [335](http://www.itu.int/md/R12-WP5A-C-0335/en) (WP 7C) |
| **AI 1.13 (SRS Res. 652)** |  |
| **AI 1.15 (MMS Res. 358)** |  |
| **AI 1.16 (AIS Res. 360)** | [340](http://www.itu.int/md/R12-WP5A-C-0340/en) (WP 4C) |
| **AI 1.17 (WAIC Res. 423)** | [416](http://www.itu.int/md/R12-WP5A-C-0416/en) (WP 5B) |
| **AI 9.1.x (MSS Res. 205)** | [336](http://www.itu.int/md/R12-WP5A-C-0336/en) (WP 7B) |
| **Working Group 5: New technologies (Chairman:** **Hitoshi Yoshino****, Japan)** |
| **CRS Report** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 26](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N26!MSW-E) and [Annex 27](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N27!MSW-E) (WP 5A); [319](http://www.itu.int/md/R12-WP5A-C-0319/en), [320](http://www.itu.int/md/R12-WP5A-C-0320/en) (WP 1B); [333](http://www.itu.int/md/R12-WP5A-C-0333/en) (APT); [342](http://www.itu.int/md/R12-WP5A-C-0342/en) (WP 5D); [358](http://www.itu.int/md/R12-WP5A-C-0358), [361](http://www.itu.int/md/R12-WP5A-C-0361), [362](http://www.itu.int/md/R12-WP5A-C-0362) (USA); [374](http://www.itu.int/md/R12-WP5A-C-0374/en)-CRS aspects (Cisco and Motorola Mobility); [379](http://www.itu.int/md/R12-WP5A-C-0379/en) (Japan); [388](http://www.itu.int/md/R12-WP5A-C-0388/en) (China); [392](http://www.itu.int/md/R12-WP5A-C-0392/en) (Finland); [395](http://www.itu.int/md/R12-WP5A-C-0395/en) (Orange, Telecom Italia) [397](http://www.itu.int/md/R12-WP5A-C-0397/en) (Nokia Solutions and Networks Oy); [406](http://www.itu.int/md/R12-WP5A-C-0406/en) (WIF); [407](http://www.itu.int/md/R12-WP5A-C-0407/en) (COST-”TERRA”) |
| **ITS** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 20](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N20!MSW-E) (WP 5A); [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 24](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N24!MSW-E) and [Annex 25](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N25!MSW-E) (WP 5A); [309](http://www.itu.int/md/R12-WP5A-C-0309/en) (WP 5C); [341](http://www.itu.int/md/R12-WP5A-C-0341/en) (ETSI); [371](http://www.itu.int/md/R12-WP5A-C-0371/en) (Germany); [380](http://www.itu.int/md/R12-WP5A-C-0380/en), [381](http://www.itu.int/md/R12-WP5A-C-0381/en) (Japan); [390](http://www.itu.int/md/R12-WP5A-C-0390/en) (France); [405](http://www.itu.int/md/R12-WP5A-C-0405/en) (Korea)  |
| **AI 1.18 (Res. 654)** | [306](http://www.itu.int/md/R12-WP5A-C-0306/en) [Annex 8](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N08!MSW-E) and [Annex 9](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N09!MSW-E) (WP 5A) |

## 3.4 Systems and standards

Work continued on the development of a draft revision of Recommendations ITU-R M.1076 ([Annex 11](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N11!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)). The working documents towards preliminary draft revisions of Recommendation ITU-R M.2003 ([Annex 13](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N13!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)) and Report ITU-R M.2227 ([Annex 14](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N14!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)) on “Multiple gigabit wireless systems in frequencies around 60 GHz” were elevated to preliminary drafts with the intention of finalizing them at the May 2014 meeting. Work was initiated on operational guidelines for the deployment of broadband mobile systems for local coverage in the frequency bands below 6 GHz ([Annex 12](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N12!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)).

## 3.5 Public protection and disaster relief

The work on WRC-15 agenda item 1.3 was progressed; the draft CPM text and workplan for this agenda item appear in Annexes 6 and 7 of [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en), respectively. Work continued towards the development of draft revisions of Recommendations ITU R M.2009 ([Annex 15](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N15!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)) and ITU-R M.2015 ([Annex 19](https://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N19!MSW-E) to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306)). Work was initiated toward a preliminary draft new Report ITU-R M.[PPDR] “Public protection and disaster relief communications”, which intended to supersede Report ITU-R M.2033 ([Annex 16](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N16!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)), in support of WRC-15 agenda item 1.3.

## 3.6 Interference and sharing

Work continued on the development of a preliminary draft new Recommendation ITU‑R M.[MS 14.5‑15.35 CHAR] on characteristics of and protection criteria for systems operating in the mobile service in the frequency range 14.5-15.35 GHz ([Annex 17](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N17!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)).

Working Party 5A provided information to JTG 4-5-6-7 regarding the spectrum requirements for the work on WRC-15 agenda item 1.1.

A working document was initiated towards a preliminary draft revision of Recommendation ITU‑R M.1824 “System characteristics of television outside broadcast, electronic news gathering and electronic field production in the mobile service for use in sharing studies” ([Annex 18](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N18!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)).

### 3.6.1 Joint meeting of WP 5A and WP 5C

A WP 5A/5C Ad Hoc meeting was held on on Tuesday, 19 November 2013 at 17:30 hours to discuss contributions of joint interest.

*Cross-border handbook:* Documents [5A/350](http://www.itu.int/md/R12-WP5A-C-0350)=[5C/206](http://www.itu.int/md/R12-WP5C-C-0206) (Chairman, JCG 5A/5C) and [5A/385](http://www.itu.int/md/R12-WP5A-C-0385)=[5C/227](http://www.itu.int/md/R12-WP5C-C-0227) (Russian Federation) were considered. It was agreed to limit the scope to the Fixed Service only, hence WP 5A will not continue to be involved.

*Update of Recommendation ITU-R F.1336:* Documents [5A/326](http://www.itu.int/md/R12-WP5A-C-0326)=[5C/185](http://www.itu.int/md/R12-WP5C-C-0185/en), [5A/347](http://www.itu.int/md/R12-WP5A-C-0347)=[5C/203](http://www.itu.int/md/R12-WP5C-C-0203/en) (WP 5D); [5C/226](http://www.itu.int/md/R12-WP5C-C-0226/en) (Japan); and [5A/396](http://www.itu.int/md/R12-WP5A-C-0396)=[5C/228](http://www.itu.int/md/R12-WP5C-C-0228/en) (Ericsson) were considered. It was agreed that WG5C-4 would take lead and WP 5A members would participate directly in WG5C-4. The draft revision of the Recommendation was submitted by WP 5C to Study Group 5 ([Doc. 5/85](http://www.itu.int/md/R12-SG05-C-0085/en)).

*Update of Recommendation ITU-R F.1105-2* “Fixed wireless systems for disaster mitigation and relief operations”: Document [5C/225](http://www.itu.int/md/R12-WP5C-C-0225) (Japan) was considered. It was agreed that WG5C-4 would develop the output, coordinate with WG5A-3, and submit the draft revised Recommendation to Study Group 5 ([Doc. 5/90](http://www.itu.int/md/R12-SG05-C-0090/en)). It was also agreed to send a joint WP 5A and WP 5C liaison statement to ITU-D Study Group 2 (Question 22-1/2) ([Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N02!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421)).

*Proposed Development of a Draft New Report ITU-R F.[FS.IMT/BB]:* Documents [5A/311](http://www.itu.int/md/R12-WP5A-C-0311) (WP 5C) and [5A/327](http://www.itu.int/md/R12-WP5A-C-0327)=[5C/186](http://www.itu.int/md/R12-WP5C-C-0186) (WP 5D) were considered. It was agreed to conduct the work in WG5C-4 and WP5A-2 would provide a liaison statement to WP 5C.

*ENG: Update of Recs. ITU-R F.1777 and M.1824:* Documents [5C/224](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-WP5C-C-0224) (Australia) and [5A/373](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-WP5A-C-0373)=[5C/216](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R12-WP5C-C-0216) (Canada) were considered. It was agreed to develop separate revisions, F.1777 in WP 5C and M.1824 in WP 5A.

*Liaison with ITU-T:* The need for joint liaison activities was discussed on the basis of the following documents:

WP 1A: [5A/314](http://www.itu.int/md/R12-WP5A-C-0314/en)=[5C/177](http://www.itu.int/md/R12-WP5C-C-0177/en), [5A/315](http://www.itu.int/md/R12-WP5A-C-0315/en)=[5C/178](http://www.itu.int/md/R12-WP5C-C-0178), [5A/316](http://www.itu.int/md/R12-WP5A-C-0316/en)=[5C/179](http://www.itu.int/md/R12-WP5C-C-0179), [5A/317](http://www.itu.int/md/R12-WP5A-C-0317/en)=[5C/180](http://www.itu.int/md/R12-WP5C-C-0180) - Noted for information. Furthermore, upon consideration of Doc. [5A/315](http://www.itu.int/md/R12-WP5A-C-0315/en)=[5C/178](http://www.itu.int/md/R12-WP5C-C-0178), WP 5A and WP 5C decided to nominate Mr. John Shaw (E-mails: shawzone@gmail.com / shawzone@usa.net) as their contact point for the WP 1A Rapporteur Group on “Coexistence of wired telecommunication with radiocommunication systems”

WP 5D: [5A/324](http://www.itu.int/md/R12-WP5A-C-0324/en)=[5C/184](http://www.itu.int/md/R12-WP5C-C-0184) - Noted for information.

ITU-T SG 15: [5A/328](http://www.itu.int/md/R12-WP5A-C-0328/en)=[5C/187](http://www.itu.int/md/R12-WP5C-C-0187) - Joint Liaison with WP 5A developing text as lead (see [Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N02!MSW-E)).

ITU-T SG 9: [5A/351](http://www.itu.int/md/R12-WP5A-C-0351/en)=[5C/208](http://www.itu.int/md/R12-WP5C-C-0208/en) - Joint Liaison with WP 5A developing text as lead (see [Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N02!MSW-E)).

## 3.7 New technologies

In cooperation with WP 5B, the work on WRC-15 agenda item 1.18 (invites ITU-R iii) has been progressed; the draft CPM text and workplan for this agenda item appear in Annexes 8 and 9 of [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en), respectively. The documents on cognitive radio systems (CRS) ([Annex 20](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N20!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)) and intelligent transport systems (ITS) ([Annex 19](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N19!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en)) are being progressed.

## 3.8 Land Mobile Handbook

Since the publication of Volume 5 (Deployment of broadband wireless access systems) no further activity on handbooks has been undertaken yet; WP 5A is maintaining liaison with ITU-D Study Group 2 to assist them with their work.

## 3.9 Vocabulary

The working document towards the development of the land mobile vocabulary with a view to develop either a new Recommendation or a future revision of the existing [Recommendation ITU‑R M.1797](http://www.itu.int/rec/R-REC-M.1797/en) will be considered at future meetings ([Annex 25](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0079!N25!MSW-E) to [Doc. 5A/79](http://www.itu.int/md/R12-WP5A-C-0079/en)).

# 4 Objectives for the thirteenth meeting of WP 5A

The principal objective for the 13th meeting of Working Party 5A is to assess any work that may need to be conducted by WP 5A in support for the preparations for WRC-15 (in particular to complete the draft CPM text for the WRC-15 agenda items that are the responsibility of WP 5A) and to continue the work on the study questions assigned to WP 5A.

Working Party 5A is to update the relevant information in Attachments 1 and 2 in
[Document RAG13-1/2](http://www.itu.int/md/R13-RAG13-C-0002/en) for posting on the webpage of Study Group 5 (cf. [Doc. 5A/352](http://www.itu.int/md/R12-WP5A-C-0352)).

Summarize the views of Working Party 5A on the experience and any additional comments for improvements of the demonstration version of the Recommendations database search facility, which is available at <https://extranet.itu.int/itu-r/rsg/docs/filter.aspx>, and convey the result to the Chairman of Study Group 5 (cf. [Doc. 5A/354](http://www.itu.int/md/R12-WP5A-C-0354)).

Based on the reports from the Working Groups, the following overall objectives are tentatively set for the 13th meeting of WP 5A:

1) Amateur and amateur-satellite

– Progress the work on WRC-15 agenda item 1.4, in accordance with the adopted workplan and milestones:

i) Complete sharing studies taking into account feedback from contributing groups

ii) Complete draft new Report(s) on sharing studies

iii) Finalize CPM text, considering and incorporating from contributing groups

– Continue to review and update as necessary ITU-R Recommendations, Reports and Handbooks relevant to the amateur and amateur-satellite services

– Review ITU-D Questions, Recommendations, Reports and Handbooks relevant to the amateur and amateur-satellite services and, if necessary, develop liaison statements to responsible ITU-D Study Groups.

2) Systems and standards

Continue the work on WAS Study Questions on the basis of input contributions and, in particular, to continue the work on:

− Development of a preliminary draft revision of Recommendation ITU-R M.1076

− Development of a preliminary draft revision of Recommendation ITU-R M.2003

− Development of a preliminary draft revision of Report ITU-R M.2227

− Development of a working document on operational guidelines for the deployment of broadband mobile systems for local coverage in the frequency bands below 6 GHz.

3) Public protection and disaster relief

– Continue the development of the new Report on narrowband, wideband and broadband PPDR based on input contributions

– Continue the development of working document toward a preliminary draft revision of Recommendation ITU-R M.2009 based on input contributions

– Continue development of the working document toward a preliminary draft revision of Recommendation ITU-R M.2015 based on input contributions, and

– Finalize draft CPM text for WRC-15 agenda item 1.3 based on the results of studies and input contributions.

4) Interference and sharing

– Continue the development of the draft revision of Recommendation ITU-R M.1824 on system characteristics of television outside broadcast, electronic news gathering and electronic field production in the mobile service for use in sharing studies

– Further progress the development of the preliminary draft new Recommendation ITU‑R M.[MS 14.5-15.35 CHAR] on characteristics of and protection criteria for systems operating in the mobile service in the frequency range 14.5-15.35 GHz

– Consider the new approach for base station antenna modelling for land mobile systems based on the proposal transferred from WP 5C (see section 14 of Document [5C/155](http://www.itu.int/md/R12-WP5C-C-0155/en)).

5) New technologies

– Further develop a PDN Reports ITU-R M.[LMS.CRS2] on cognitive radio systems in accordance with Question ITU-R 241-1/5 and Resolution ITU-R 58,with an aim to finalize it in its 13th meeting in May 2013

– Continue the development of working document towards a preliminary draft new Recommendation ITU-R M.[V2X], and working document towards a preliminary draft revision of Report ITU-R M.2228 on advanced ITS radiocommunications

– Continue to work with WP 5B on WRC-15 agenda item 1.18 on systems characteristics of automotive radars operating in the frequency band 76-81 GHz for ITS applications.

6) Land Mobile Handbook

– With the completion of 5 volumes of the Land Mobile Handbook (including wireless access), no particular objectives are set for the next meeting. The development of future volumes will be contribution driven.

7) Vocabulary

– Continue the development of the land mobile vocabulary ([Annex 25](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0079!N25!MSW-E) to [Doc. 5A/79](http://www.itu.int/md/R12-WP5A-C-0079/en)) with a view to develop either a new Recommendation or a future revision of the existing [Recommendation ITU-R M.1797](http://www.itu.int/rec/R-REC-M.1797/en).

# 5 Future meetings

The next meeting of WP 5A (#13) is scheduled to be held from 19-29 May 2014.  **The deadline for the submission of contributions is 16:00 hours UTC, 12 May 2014[[1]](#footnote-1)[1].  The Tunisian administration has kindly offered to host the meeting in Tunisia.  The official venue and time will be announced in the Circular Letter announcing the meeting that will be posted at least 3 months before the meeting on this page:** <http://www.itu.int/md/R00-SG05-CIR/e>

# 6 Progression of the work and concluding remarks

The work will continue by correspondence, in particular a Correspondence Group on the narrowband and wideband parts of the working document towards a draft new Report ITU‑R M.[PPDR] will conduct its work using the Share Point facilities:

<https://extranet.itu.int/rsg-meetings/sg5/wp5a/cg-ppdr-report-n-w/>

(see Appendix 2 of [Annex 3](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N03!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en) for the terms of reference and Section 6.5 of [Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N01!MSW-E) for information on the Share Point facilities).

[Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N01!MSW-E) also summarizes the status of the texts that are the responsibility of WP 5A (Section 1), the structure of WP 5A (Section 2), and the list of contacts for liaison and collaboration with other organizations under Resolution ITU-R 9-4 (Section 4).

The WP 5A and wireless access systems (WAS) home pages can be found, respectively, at

 <http://www.itu.int/ITU-R/go/rwp5a/en>

 <http://www.itu.int/ITU-R/go/rwp8a-was>.

In closing, the Chairman thanked all the WP 5A participants for their hard work, and in particular the Chairmen of the Working Groups, Ms Amy Sanders and Messrs Dale Hughes, Lang Baozhen, Michael Kraemer, and Hitoshi Yoshino; the LMH Rapporteur, Dr Gabrielle Owen; the vocabulary Rapporteur, Mr Christian Rissone; the Liaison Rapporteurs, Mses Gabrielle Owen and Amy Sanders and Messrs Brennan Price, Paul Najarian, Hitoshi Yoshino, and Brian Copsey, UK; and the BR, in particular the WP 5A Counsellor, Mr Sergio Buonomo, and the interim WP 5A Counsellor for the twelfth meeting, Mr David Botha, for the excellent support provided at the meetings.

1. [1]   Members are strongly advised to pay attention to the strict time deadline.  Contributions received after the deadline will be considered at the fourteenth meeting of WP 5A. [↑](#footnote-ref-1)