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| **Radiocommunication Study Groups** |  |
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|  | **Document 5A/306-E** |
| **17 June 2013** |
| **English only** |
| Chairman, Working Party 5A | |
| report on the eleventH meeting of working party 5a | |
| (Geneva, 20-30 May 2013) | |

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[1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N01!MSW-E) Working Party 5A Management

[2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!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-0306!N03!MSW-E) Consolidation of reports from the Working Groups of Working Party 5A

[4](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N04!MSW-E) Working document towards the draft CPM text for WRC-15 Agenda item 1.4  
(Source: Doc. 5A/TEMP/120)

[5](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N05!MSW-E) Work plan for WRC-15 Agenda item 1.4 (Source: [Annex 5](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0079!N05!MSW-E) to [Doc. 5A/79](http://www.itu.int/md/R12-WP5A-C-0079/en))

[6](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N06!MSW-E) Working document towards the preliminary draft CPM text for WRC-15 Agenda item 1.3 (Source: Doc. 5A/TEMP/128)

[7](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N07!MSW-E) Work plan for WRC-15 Agenda item 1.3 (Source: [Annex 7](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N07!MSW-E) to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198/en))

[8](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N08!MSW-E) Draft CPM text for WRC-15 Agenda item 1.18   
(Source: Doc. 5B/TEMP/115)

[9](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N09!MSW-E) Work plan for WRC-15 Agenda item 1.18 (Source: [Annex 9](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0079!N09!MSW-E) to [Doc. 5A/79](http://www.itu.int/md/R12-WP5A-C-0079/en))

[10](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!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, radiolocation and maritime mobile services in the frequency band 5 250‑5 450 kHz (Source: Doc. 5A/TEMP/139)

[11](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N11!MSW-E) Preliminary draft revision to ITU-R Handbook for amateur and amateur-satellite services (Source: Doc. 5A/TEMP/138)

[12](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N12!MSW-E) Preliminary Draft New Report ITU-R [LMS.ATG] – “Systems for public mobile communications with aircraft” (Source: Doc. 5A/TEMP/102)

[13](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N13!MSW-E) Working document towards a preliminary draft revision of Recommendation ITU-R M.1076 – “Wireless communication systems for persons with impaired hearing” (Source: Doc. 5A/TEMP/115)

[14](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N14!MSW-E) Working document toward a preliminary draft new Question ITU-R [Doc. XXX-5] – Radiocommunication for short-range hearing aids operating in public access systems (Source: Doc. 5A/TEMP/112)

[15](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N15!MSW-E) Preliminary draft revision of Recommendation ITU-R M.1450-3 – “Characteristics of broadband radio local area networks” (Source: Doc. 5A/TEMP/109)

[16](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N16!MSW-E) Working document towards a preliminary draft revision of Recommendation ITU-R F.1763 - Radio interface standards for broadband wireless access systems in the fixed service operating below 66 GHz (Source: Doc. 5A/TEMP/101)

[17](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N17!MSW-E) Working document towards a preliminary draft revision of Recommendation ITU-R M.2003 - Multiple gigabit wireless systems in frequencies around 60 GHz   
(Source: Doc. 5A/TEMP/113)

[18](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N18!MSW-E) Working document towards a preliminary draft revision of Report ITU-R M.2227 - Multiple gigabit wireless systems in frequencies around 60 GHz  
(Source: Doc. 5A/TEMP/118)

[19](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N19!MSW-E) 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) (Source: Doc. 5A/TEMP/127R1)

[20](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N20!MSW-E) Working document towards a preliminary draft revision of Report ITU-R M.2033 - Radiocommunication objectives and requirements for Public Protection and Disaster Relief (PPDR) (Source: Doc. 5A/TEMP/141)

[21](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N21!MSW-E) Working document toward a preliminary draft new Report ITU-R M.[B-PPDR] "Broadband public protection and disaster relief communications"  
(Source: Doc. 5A/TEMP/142R2)

[22](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N22!MSW-E) Working document holding text to be considered for other working documents  
(Source: Doc. 5A/TEMP/143R1)

[23](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N23!MSW-E) Preliminary draft new [Report/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/122)

[24](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N24!MSW-E) Preliminary draft new Recommendation ITU-R M.[AUTO] - Systems characteristics of automotive radars operating in the frequency band 76-81 GHz for intelligent transport systems applications service for use in sharing studies   
(Source: Doc. 5A/TEMP/134)

[25](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N25!MSW-E) Working document towards a preliminary draft new Recommendation ITU-R M.[V2X] - Radio interface standards of vehicle-to-vehicle and vehicle‑to‑infrastructure communication for intelligent transport systems applications (Source: Doc. 5A/TEMP/107)

[26](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N26!MSW-E) Working document towards a preliminary draft new Report ITU-R [LMS.CRS2] - [Cognitive radio systems [(CRS) applications] in the land mobile service]   
(Source: Doc. 5A/TEMP/146)

[27](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N27!MSW-E) Working Document on text element for possible inclusion in [LMS.CRS2] Report   
(Source: Doc. 5A/TEMP/148R1)

[28](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N28!MSW-E) List of output documents

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

[Annex 17](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N17!MSW-E) to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198/en): Working document toward a 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).

[Annex 19](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N19!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.2116-1 - Characteristics of broadband wireless access systems operating in the land mobile service for use in sharing studies.

[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/298(Rev.1)](http://www.itu.int/md/R12-WP5A-C-0298/en)

Final list of participants: [Doc. 5A/305](http://www.itu.int/md/R12-WP5A-C-0305/en)

# 1 Introduction

Working Party 5A (WP 5A) held its eleventh meeting from 20-30 May 2013 in Geneva, chaired by [José Costa](mailto:jose.costa@ericsson.com?subject=WP%205A%20chairman's%20report) (Canada). The meeting participants (see list in [Doc. 5A/305](http://www.itu.int/md/R12-WP5A-C-0305/en)) included 179 participants from 39 countries representing 36 administrations, 6 registered operating agencies, 10 scientific or industrial organizations, one U.N. Specialized Agency, 3 regional and other international organizations, one regional telecommunications organization, one intergovernmental organization operating satellite systems, 2 other entities, and the BR. WP 5A held three plenary sessions during the meeting period (on 20, 24, and 30 May 2013).

During the opening remarks the chairman announced with sadness the recent passing of Mr. Ken Pulfer (Canada), who chaired WG 1 (Amateurs Services) from 2009-2012, Mr. Steve Bond (UK), who chaired the WG on RLANs under the former JTG 8A-9B including the preparations towards WRC-03, and Mr. Abderrazk Berrada (Morocco), former Chairman of the IFRB. The meeting observed a minute of silence in their memory.

The meeting dealt with 115 input documents (see list in [Doc. 5A/305(Rev.1)](http://www.itu.int/md/R12-WP5A-C-0305)) and upon their consideration the meeting prepared 55 output temporary documents (see list in [Annex 28](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N28!MSW-E) to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198)). Documents 5A/[190](http://www.itu.int/md/R12-WP5A-C-0190), [191](http://www.itu.int/md/R12-WP5A-C-0191), [192](http://www.itu.int/md/R12-WP5A-C-0192), [193](http://www.itu.int/md/R12-WP5A-C-0193), [194](http://www.itu.int/md/R12-WP5A-C-0194) (WP 5C) and [195](http://www.itu.int/md/R12-WP5A-C-0195), [196](http://www.itu.int/md/R12-WP5A-C-0196) (WP 5B) that arrived on the last day of the 10th meeting were considered at the 11th meeting of WP 5A. [Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!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 tenth meeting of WP 5A ([Doc. 5A/198](http://www.itu.int/md/R07-WP5A-C-0198)) was adopted, including the objectives for the 11th meeting as presented in Section 4 of [Doc. 5A/198](http://www.itu.int/md/R07-WP5A-C-0198).

The structure of WP 5A for this meeting was also adopted as presented in Section 2.2 of Annex 1 to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198).

The Chairman asked the meeting participants to review the list of contacts that appears in Section 4 of Annex 1 to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198) 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-0306!N01!MSW-E) ([Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306)) 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 presented his report on the results of the 5th meeting of Study Group 5, 19 November 2012 ([Doc. 5A/215](http://www.itu.int/md/R12-WP5A-C-0215)). The BR presented a questionnaire on behalf of the ITU Secretary General on the role of ICTs to promote the inclusion of persons with disabilities ([Doc. 5A/232](http://www.itu.int/md/R12-WP5A-C-0232)), which was assigned to Working Group 5A-2. The BR also presented an information paper on the development of a spectrum management training programme ([Doc. 5A/INFO/4](http://www.itu.int/md/R12-WP5A-INF-0004/en)), and participants were invited to volunteer their expertise as appropriate.

At the closing plenary the Chairman of Study Group 5 presented the results of the 20th RAG meeting, 22-24 May 2013 ([Doc. 5A/304](http://www.itu.int/md/R12-WP5A-C-0304)).

[Doc. 5A/284](http://www.itu.int/md/R12-WP5A-C-0284) 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)).

The liaison statements in[Doc. 5A/211](http://www.itu.int/md/R12-WP5A-C-0211) and [Doc. 5A/219](http://www.itu.int/md/R12-WP5A-C-0219) were noted and the working groups were asked to pass any comments to Working Group 5A-2 for developing draft responses. WP 5A approved a liaison response to [Doc. 5A/211](http://www.itu.int/md/R12-WP5A-C-0211) and no issues were identified with [Doc. 5A/219](http://www.itu.int/md/R12-WP5A-C-0219). [Doc. 5A/239](http://www.itu.int/md/R12-WP5A-C-0239) was also noted and a response will be prepared by the SG 5 management team to provide a single contact for SG 5.

Other reports presented by the Liaison Rapporteurs were noted, including on [Disaster Relief](http://www.itu.int/ITU-R/index.asp?category=information&link=emergency&lang=en) by Amy Sanders ([Doc. 5A/257](http://www.itu.int/md/R12-WP5A-C-0257)), on ITS by Paul Najarian ([Doc. 5A/263](http://www.itu.int/md/R12-WP5A-C-0263)), on certain countries in Region 2 by Brennan Price ([Doc. 5A/293](http://www.itu.int/md/R12-WP5A-C-0293)), on WWRF ([Doc. 5A/296](http://www.itu.int/md/R12-WP5A-C-0296)) and certain countries in Region 3   
([Doc. 5A/297](http://www.itu.int/md/R12-WP5A-C-0297)) by Hitoshi Yoshino, and on certain countries in Region 1 by Gabrielle Owen   
([Doc. 5A/303](http://www.itu.int/md/R12-WP5A-C-0303)).

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/198](http://www.itu.int/md/R12-WP5A-C-0198) 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/198](http://www.itu.int/md/R12-WP5A-C-0198) and the outline of the preparatory work for WRC-15 in Section 3 of Annex 1 to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198). 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)). Upon consideration of [Doc. 5A/216](http://www.itu.int/md/R12-WP5A-C-0216/en) from the Coordination Committee for Vocabulary (CCV) presented by the Chairman of Study Group 5, the meeting agreed with the proposal and asked the Vocabulary Rapporteur to inform the CCV accordingly.

On Tuesday, 21 May 2013, the Wireless World Research Forum (WWRF) presented a successful workshop from 15:45 to 19:00 hours; the programme and presentations are available at: <http://www.wwrf.ch/index.php/workshop_geneva.html>.

# 2 Objectives and work programme for the eleventh 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/189](http://www.itu.int/md/R07-WP5A-C-0189)) 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 that considered the development of the cross-border coordination handbook, a proposed update of [Recommendation ITU-R F.1336-3](http://www.itu.int/rec/R-REC-F.1336/en) “Reference radiation patterns of omnidirectional, sectoral and other antennas in point-to multipoint systems for use in sharing studies in the frequency range from 1 GHz to about 70 GHz”, a proposed update of [Recommendation ITU-R F.1105-2](http://www.itu.int/rec/R-REC-F.1105) “Fixed wireless systems for disaster mitigation and relief operations” and the development of various joint liaison statements with WP 1B to ITU-T study groups. 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/218+Corr.1](http://www.itu.int/md/R12-WP5A-C-0218) that includes views on many WRC-15 Agenda items was assigned to the Working Groups dealing with WRC-15 preparations.

Several liaison statements arrived during the meeting from JCA-AHF ([Doc. 5A/299](http://www.itu.int/md/R12-WP5A-C-0299)) and WP 5B ([Doc. 5A/300](http://www.itu.int/md/R12-WP5A-C-0300), [Doc. 5A/301](http://www.itu.int/md/R12-WP5A-C-0301), [Doc. 5A/302](http://www.itu.int/md/R12-WP5A-C-0302)) and were assigned to the relevant Working Groups.

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-0306!N03!MSW-E). The texts proposed by these Working Groups in TEMP documents ([Annex 28](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N23!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-0306!N02!MSW-E)).

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**](mailto:jose.costa@ericsson.com?subject=WP5A-meeting)**, Canada)** | |
| **Reports** | [198](http://www.itu.int/md/R12-WP5A-C-0198), [215](http://www.itu.int/md/R12-WP5A-C-0215) (Chairman, WP 5A); [257](http://www.itu.int/md/R12-WP5A-C-0257) (Disaster Relief L.R.); [263](http://www.itu.int/md/R12-WP5A-C-0263) (ITS L.R.); [293](http://www.itu.int/md/R12-WP5A-C-0293) (L.R. #2); [296](http://www.itu.int/md/R12-WP5A-C-0296) (WWRF L.R.); [297](http://www.itu.int/md/R12-WP5A-C-0297) (L.R. #3); [298R1](http://www.itu.int/md/R12-WP5A-C-0298) (List of Documents); [303](http://www.itu.int/md/R12-WP5A-C-0303) (L.R. #1);  [304](http://www.itu.int/md/R12-WP5A-C-0304) (Chairman, SG 5); [305](http://www.itu.int/md/R12-WP5A-C-0305) (List of Participants) |
| **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); [216](http://www.itu.int/md/R12-WP5A-C-0216) (CCV); [218+Corr.1](http://www.itu.int/md/R12-WP5A-C-0218) (WMO); [239](http://www.itu.int/md/R12-WP5A-C-0239) (ITU-T SG 17) |
| **Working Group 1: Amateur Services (Chairman:** [**Dale Hughes**](mailto:Dale.Hughes@csiro.au?subject=WP5A-meeting)**, Australia)** | |
| **AI 1.4 (~5 300 kHz)** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 4](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N04!MSW-E) and [Annex 5](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N05!MSW-E) (WP 5A); [200](http://www.itu.int/md/R12-WP5A-C-0200) (WP 5B); [237](http://www.itu.int/md/R12-WP5A-C-0237) (Russian Federation); [253](http://www.itu.int/md/R12-WP5A-C-0253) (Canada); [292](http://www.itu.int/md/R12-WP5A-C-0292)-AI1.4 (IARU); [301](http://www.itu.int/md/R12-WP5A-C-0301) (WP 5B) |
| **ITU-R Reports** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 10](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N10!MSW-E), [Annex 11](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N11!MSW-E), [Annex 12](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N12!MSW-E) (WP 5A); [242](http://www.itu.int/md/R12-WP5A-C-0242) (Canada); [250](http://www.itu.int/md/R12-WP5A-C-0250) (USA); [254](http://www.itu.int/md/R12-WP5A-C-0254) (Canada);  [280](http://www.itu.int/md/R12-WP5A-C-0280) (China); [289](http://www.itu.int/md/R12-WP5A-C-0289) (UK, Netherlands, Norway) |
| **Amateur Handbook** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 13](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N13!MSW-E) (WP 5A); [238](http://www.itu.int/md/R12-WP5A-C-0238) (Russian Federation) |
| **(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**](mailto:bzlang@ties.itu.int?subject=WP5A-meeting)**, China)** | |
| **Wireless Gigabit Networks** | [258](http://www.itu.int/md/R12-WP5A-C-0258) (WGA) |
| **Question** [**37**](http://www.itu.int/pub/R-QUE-SG05.37) **(except PPDR)** | [211](http://www.itu.int/md/R12-WP5A-C-0211) (ITU-T SG 5) |
| **Update of Rep. ITU-R M.1051** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 14](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N14!MSW-E) (WP 5A); [221](http://www.itu.int/md/R12-WP5A-C-0221) (APT); [226](http://www.itu.int/md/R12-WP5A-C-0226) (ETSI); [233](http://www.itu.int/md/R12-WP5A-C-0233) (USA); [268](http://www.itu.int/md/R12-WP5A-C-0268) (Qualcomm); [277](http://www.itu.int/md/R12-WP5A-C-0277) (China) |
| **Update of Rec. ITU-R M.1450** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 16](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N16!MSW-E) (WP 5A); [229](http://www.itu.int/md/R12-WP5A-C-0229) (ETSI); [234](http://www.itu.int/md/R12-WP5A-C-0234) (CEPT ECC WG FM); [265](http://www.itu.int/md/R12-WP5A-C-0265) (Wi-Fi Alliance) |
| **Update of Rec. ITU-R F.1763** | [259](http://www.itu.int/md/R12-WP5A-C-0259) (WGA); [260](http://www.itu.int/md/R12-WP5A-C-0260) (XGP Forum); [272](http://www.itu.int/md/R12-WP5A-C-0272) (Japan) |
| **AI 9.1.6 (Def. Res. 957)** |  |
| **ITU-T (Energy, ANTS, etc.)** | [219](http://www.itu.int/md/R12-WP5A-C-0219) (ITU-T SG 13) |
| **Hearing aids and related matters** | [196](http://www.itu.int/md/R12-WP5A-C-0196) (WP 5B); [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 15](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N15!MSW-E) (WP 5A); [205](http://www.itu.int/md/R12-WP5A-C-0205) (ITU-T SG 16); [209](http://www.itu.int/md/R12-WP5A-C-0209) (JCA-AHF);  [232](http://www.itu.int/md/R12-WP5A-C-0232) (ITU Sec Gen); [255](http://www.itu.int/md/R12-WP5A-C-0255) (Canada); [287](http://www.itu.int/md/R12-WP5A-C-0287) (ITU-T JCA-AHF); [299](http://www.itu.int/md/R12-WP5A-C-0299) (JCA-AHF); [300](http://www.itu.int/md/R12-WP5A-C-0300) (WP 5B) |
| **Working Group 3: PPDR (Chairman:** [**Amy Sanders**](mailto:amy.sanders@alcatel-lucent.com)**, USA)** | |
| **Update of Rep. ITU-R M.2033 / new Report** | [208](http://www.itu.int/md/R12-WP5A-C-0208) (WP 5D); [222](http://www.itu.int/md/R12-WP5A-C-0222) (APT); [231](http://www.itu.int/md/R12-WP5A-C-0231) (FG-DR&NRR); [244](http://www.itu.int/md/R12-WP5A-C-0244) (Canada); [248](http://www.itu.int/md/R12-WP5A-C-0248) (USA); [252](http://www.itu.int/md/R12-WP5A-C-0252) (Canada);  [256](http://www.itu.int/md/R12-WP5A-C-0256) (CEPT ECC CPG PTA); [264](http://www.itu.int/md/R12-WP5A-C-0264) (New Zealand); [267](http://www.itu.int/md/R12-WP5A-C-0267) (Ericsson, Motorola Sol.); [269](http://www.itu.int/md/R12-WP5A-C-0269) (Israel); [270](http://www.itu.int/md/R12-WP5A-C-0270) (Motorola Sol.); [273](http://www.itu.int/md/R12-WP5A-C-0273) (Japan); [279](http://www.itu.int/md/R12-WP5A-C-0279), [281](http://www.itu.int/md/R12-WP5A-C-0281) (China); [282](http://www.itu.int/md/R12-WP5A-C-0282) (Korea) |
| **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) |
| **Update of Rec. ITU-R M.2015** | [79](http://www.itu.int/md/R12-WP5A-C-0079) [Annex 18](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0079!N18!MSW-E) (WP 5A); [236](http://www.itu.int/md/R12-WP5A-C-0236) (Australia) |
| **AI 1.3 (PPDR Res. 646)** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 6](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N06!MSW-E) and [Annex 7](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N07!MSW-E) (WP 5A); [235](http://www.itu.int/md/R12-WP5A-C-0235) (Australia); [243](http://www.itu.int/md/R12-WP5A-C-0243) (Canada) |
| **[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**](mailto:Michael.Kraemer@eplus-gruppe.de?subject=WP5A-meeting)**, Germany)** | |
| **Sharing studies (general)** | [210](http://www.itu.int/md/R12-WP5A-C-0210) (ITU-T SG 5); [214](http://www.itu.int/md/R12-WP5A-C-0214) (ITU-T SG 9); [225](http://www.itu.int/md/R12-WP5A-C-0225) (WP 7B); [240](http://www.itu.int/md/R12-WP5A-C-0240), [241](http://www.itu.int/md/R12-WP5A-C-0241) (WP 6A); [286](http://www.itu.int/md/R12-WP5A-C-0286) (Ericsson) |
| **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** | [284](http://www.itu.int/md/R12-WP5A-C-0284) (Chairman, JCG 5A/5C) |
| **AI 1.1 (Res. 233)** | [199](http://www.itu.int/md/R12-WP5A-C-0199) (WP 5B); [203](http://www.itu.int/md/R12-WP5A-C-0203), [204](http://www.itu.int/md/R12-WP5A-C-0204) (JTG 4-5-6-7); [212](http://www.itu.int/md/R12-WP5A-C-0212), [213](http://www.itu.int/md/R12-WP5A-C-0213) (WP 5D); [217](http://www.itu.int/md/R12-WP5A-C-0217) (IMO); [230](http://www.itu.int/md/R12-WP5A-C-0230) (WP 7C);  [246](http://www.itu.int/md/R12-WP5A-C-0246) (USA); [261](http://www.itu.int/md/R12-WP5A-C-0261) (USA); [266](http://www.itu.int/md/R12-WP5A-C-0266) (Wi-Fi Alliance); [271](http://www.itu.int/md/R12-WP5A-C-0271) (IEEE 802); [291](http://www.itu.int/md/R12-WP5A-C-0291) (Sweden) |
| **AI 1.2 (Res. 232)** |  |
| **AI 1.5 (UAS Res. 153)** | [201](http://www.itu.int/md/R12-WP5A-C-0201) (WP 5B) |
| **AI 1.6 (FSS Res. 151, 152)** | [194](http://www.itu.int/md/R12-WP5A-C-0194) (WP 5C); [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 18](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N18!MSW-E) (WP 5A); [227](http://www.itu.int/md/R12-WP5A-C-0227) (WPs 7B, 7C, 7D); [249](http://www.itu.int/md/R12-WP5A-C-0249) (USA); [295](http://www.itu.int/md/R12-WP5A-C-0295) (WP 4A) |
| **(AI 1.7) (FSS in ~5 100 MHz)** |  |
| **AI 1.8 (ESV res. 909)** | [192](http://www.itu.int/md/R12-WP5A-C-0192) (WP 5C) |
| **AI 1.9.1, 1.9.2 (FSS Res. 758)** | [294](http://www.itu.int/md/R12-WP5A-C-0294) (WP 4A) |
| **AI 1.10 (MSS Res. 234)** |  |
| **AI 1.11 (EESS Res. 650)** |  |
| **AI 1.12 (EESS Res. 651)** | [228](http://www.itu.int/md/R12-WP5A-C-0228) (WP 7C) |
| **AI 1.13 (SRS Res. 652)** | [224](http://www.itu.int/md/R12-WP5A-C-0224) (WP 7B) |
| **AI 1.15 (MMS Res. 358)** | [193](http://www.itu.int/md/R12-WP5A-C-0193) (WP 5C); [195](http://www.itu.int/md/R12-WP5A-C-0195) (WP 5B) |
| **AI 1.16 (AIS Res. 360)** | [302](http://www.itu.int/md/R12-WP5A-C-0302) (WP 5B) |
| **AI 1.17 (WAIC Res. 423)** |  |
| **AI 9.1.x (MSS Res. 205)** | [191](http://www.itu.int/md/R12-WP5A-C-0191) (WP 5C) |
| **Working Group 5: New technologies (Chairman:** [**Hitoshi Yoshino**](mailto:hitoshi.yoshino@g.softbank.co.jp?subject=WP5A-meeting)**, Japan)** | |
| **CRS Report** | [190](http://www.itu.int/md/R12-WP5A-C-0190) (WP 5C); [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 22](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N22!MSW-E) (WP 5A); [206](http://www.itu.int/md/R12-WP5A-C-0206), [207](http://www.itu.int/md/R12-WP5A-C-0207) (WP 5D); [247](http://www.itu.int/md/R12-WP5A-C-0247), [251](http://www.itu.int/md/R12-WP5A-C-0251) (USA); [274](http://www.itu.int/md/R12-WP5A-C-0274) (Japan);  [278](http://www.itu.int/md/R12-WP5A-C-0278) (China); [283](http://www.itu.int/md/R12-WP5A-C-0283) (FT Orange, TI); [285](http://www.itu.int/md/R12-WP5A-C-0285) Finland); [290](http://www.itu.int/md/R12-WP5A-C-0290) (NSN Oy *et al*.) |
| **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) and [Annex 21](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N21!MSW-E) (WP 5A); [202](http://www.itu.int/md/R12-WP5A-C-0202) (WP 5C); [223](http://www.itu.int/md/R12-WP5A-C-0223) (APT); [245](http://www.itu.int/md/R12-WP5A-C-0245), [262](http://www.itu.int/md/R12-WP5A-C-0262) (USA); [275](http://www.itu.int/md/R12-WP5A-C-0275),  [276](http://www.itu.int/md/R12-WP5A-C-0276) (Japan); [288](http://www.itu.int/md/R12-WP5A-C-0288) (Germany) |
| **AI 1.18 (Res. 654)** | [198](http://www.itu.int/md/R12-WP5A-C-0198) [Annex 8](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N08!MSW-E) and [Annex 9](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N09!MSW-E) (WP 5A); [220](http://www.itu.int/md/R12-WP5A-C-0220) (IUCAF); [292](http://www.itu.int/md/R12-WP5A-C-0292)-AI1.18 (IARU) |

# **3 Executive summary of the results of the eleventh 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-0306!N01!MSW-E)).

The guide to the use of ITU-R texts related to the land mobile service, including wireless access in the fixed service, was updated and approved. It is available on the WP 5A webpage: <http://www.itu.int/ITU-R/go/rwp5a/en>.

At the 11th meeting WP 5A approved one response to the Secretary General on “ICT Sectorial Consultation on the role of ICTs to promote the inclusion of persons with disabilities” and 22 liaison statements to other Groups, including external organizations, which are included in [Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N02!MSW-E).

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

At its tenth meeting Working Party 5A completed one draft new Report for submission to Study Group 5. The details are given in [Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N02!MSW-E).

## 3.3 Amateur and amateur-satellite services

The work on WRC-15 Agenda item 1.4, which deals with a proposal for a secondary amateur allocation around 5 300 kHz, was progressed; the draft CPM text and work plan for this Agenda item appear in Annexes 4 and 5 of [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306), respectively. A draft new Report on amateur service characteristics was completed and submitted to SG 5 ([Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N02!MSW-E)), and work was progressed on a working document toward preliminary draft new Report on compatibility ([Annex 10](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N10!MSW-E)). Review of ITU-R documentation relevant to the amateur and amateur-satellite services continued ([Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N01!MSW-E)). A draft revision to the Handbook on the amateur and amateur-satellite services was developed further with the intent of approving the revision at the twelfth meeting of WP 5A ([Annex 11](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N11!MSW-E)).

## 3.4 Systems and standards

The development of a preliminary draft new Report ITU-R M.[LMS.ATG] was completed and at the next meeting it will be finalized for submission to SG 5 ([Annex 12](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N12!MSW-E)). Work continued on the development of draft revisions of Recommendations ITU-R M.1076 ([Annex 13](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N13!MSW-E)), ITU-R M.1450 ([Annex 15](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N15!MSW-E)) and ITU-R F.1763 ([Annex 16](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N16!MSW-E)). A draft new Question on hearing aids was initiated ([Annex 14](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N14!MSW-E)). Working documents were initiated towards preliminary draft revisions of Recommendation ITU-R M.2003 ([Annex 17](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N17!MSW-E)) Report ITU-R M.2227 ([Annex 18](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N18!MSW-E)).

## 3.5 Public protection and disaster relief

The work on WRC-15 Agenda item 1.3 was progressed; the draft CPM text and work plan for this Agenda item appear in Annexes 6 and 7 of [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306), respectively. Work continued towards the development of a draft revision of Recommendation ITU-R M.2015 ([Annex 19](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N19!MSW-E)). The draft revision of Recommendation ITU-R M.2009 ([Annex 17](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N17!MSW-E) to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198/en)) was carried forward unchanged. Three working documents were initiated: towards a preliminary draft revision of Report ITU-R M.2033 ([Annex 20](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N20!MSW-E)), toward a preliminary draft new Report ITU-R M.[B-PPDR] ([Annex 21](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N21!MSW-E)) and a standalone working document whose contents is intended to eventually be included inthe other working documents ([Annex 22](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N22!MSW-E)).

## 3.6 Interference and sharing

Work on the spectrum requirements for terrestrial mobile broadband (excluding IMT) related to WRC-15 Agenda item 1.1 was completed and the results were liaised to JTG 4-5-6-7 as requested by CPM15-1 ([Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N02!MSW-E)).

Work has continued on a preliminary draft new [Report/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 23](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N23!MSW-E)).

The revision of Recommendation ITU-R F.1336 was further progressed in a joint activity with WP 5C in order to better reflect the base station antenna patterns of land mobile systems. WP 5D was requested to provide their input for IMT base station antennas and also inform JTG 4-5-6-7 as this antenna modelling is relevant to the studies under WRC-15 Agenda items 1.1 and 1.2.

Three liaison statements were developed jointly with WP 5B and WP 5C to provide comments to WP 1A and ITU-T regarding Recommendations ITU-T K.60, ITU-T J.195.1, ITU-T K.mhn and ITU-T G.fast ([Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N02!MSW-E)).

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

A WP 5A/5C Ad Hoc meeting was held on on Thursday, 23 May 2013 at 17:30 hours to discuss contributions of joint interest.

*Cross-border handbook:* Document [5A/284](http://www.itu.int/md/R12-WP5A-C-0284/en)=[5C/159](http://www.itu.int/md/R12-WP5C-C-0159) (Chairman, JCG 5A/5C) was considered. It was agreed to continue the work by correspondence. The Rapporteur is Mr Evgeny Tonkikh (Russian Federation); e-mail: [eugene.tonkikh@ties.itu.int](mailto:eugene.tonkikh@ties.itu.int) (see Terms of Reference in Appendix 3 to [Annex 3](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0198!N03!MSW-E) of [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198/en)). The working document is in [Annex 7](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5C-C-0171!N07!MSW-E) to [Doc. 5C/171](http://www.itu.int/md/R12-WP5C-C-0171/en).

*Update of Recommendation ITU-R F.1336:* The joint meeting noted Document [5A/286](http://www.itu.int/md/R12-WP5A-C-0286/en)=[5C/160](http://www.itu.int/md/R12-WP5C-C-0160/en) (Ericsson). It was agreed to continue the work during this meeting within WP 5C, including developing joint liaison statements and continuing the work on a draft revision. The working document is in [Annex 12](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5C-C-0171!N12!MSW-E) to [Doc. 5C/171](http://www.itu.int/md/R12-WP5C-C-0171/en). WP 5C also received a proposal for a new methodology for antennas below 1 GHz that could require a draft new Recommendation in the M-series and should be developed in WP 5A. The proponents were encouraged to contribute to the November 2013 meeting of WP 5A.

*Update of Recommendation ITU-R F.1105-2:*  WP 5C received a proposal, [Doc. 5C/157](http://www.itu.int/md/R12-WP5C-C-0157) (Japan), to initiate a draft revision of [Recommendation ITU-R F.1105-2](http://www.itu.int/rec/R-REC-F.1105) “Fixed wireless systems for disaster mitigation and relief operations”, which is the joint responsibility of WP 5A and WP 5C. It was agreed that WP 5C would continue doing the work keeping WP 5A informed. The working document is in [Annex 9](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5C-C-0171!N09!MSW-E) to [Doc. 5C/171](http://www.itu.int/md/R12-WP5C-C-0171/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-0306!N02!MSW-E) to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306) and [Annex 14](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5C-C-0171!N14!MSW-E) to [Doc. 5C/171](http://www.itu.int/md/R12-WP5C-C-0171/en)).

*Liaison with ITU-T:* The need for joint liaison activities was discussed, in particular regarding the review of Recommendation ITU-T K.60 (Document [5A/210](http://www.itu.int/md/R12-WP5A-C-0210/en)=[5C/127](http://www.itu.int/md/R12-WP5C-C-0127/en) from ITU-T SG 5) and the impact from wired telecommunication including PLT on radio communication systems (Document [5A/214](http://www.itu.int/md/R12-WP5A-C-0214/en)=[5C/131](http://www.itu.int/md/R12-WP5C-C-0131/en) from ITU-T SG 9). It was agreed to develop joint liaison statements with WP 5B as usual ([Annex 2](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N02!MSW-E)).

## 3.7 New technologies

Work continued on the development of the working document towards a preliminary draft new Report M.[LMS.CRS2] on cognitive radio systems, which is intended to be finalized for submission to SG 5 at the 2013 November meeting of WP 5A ([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) to [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306)).

In cooperation with WP 5B, the work on WRC-15 Agenda item 1.18 (invites ITU-R iii)) was progressed; the draft CPM text and work plan for this Agenda item appear in Annexes 8 and 9 of [Doc. 5A/306](http://www.itu.int/md/R12-WP5A-C-0306), respectively.

Four documents on ITS were developed: (1) a working document towards a preliminary draft new Recommendation ITU-R M.[V2X] ([Annex 25](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N25!MSW-E)), (2) a work plan on radio interface standards of vehicle-to-vehicle and vehicle-to-infrastructure communication for ITS applications ([Annex 3](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N03!MSW-E)), (3) a working document towards a preliminary draft revision of Report ITU-R M.2228 on advanced ITS radiocommunications ([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)), and (4) a preliminary draft new Recommendation ITU-R M.[AUTO] on systems characteristics of automotive radars operating in the frequency band 76-81 GHz for ITS applications ([Annex 24](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N24!MSW-E)). The preliminary draft new Recommendation ITU-R M.[AUTO] will be finalized at the next WP 5A meeting in November 2013. Liaison statements were sent to ETSI on ITS and to WP 5C on WRC-15 Agenda item 1.18.

## 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 twelfth meeting of WP 5A

The principal objective for the 12th meeting of WP 5A is to assess any work that may need to be conducted by WP 5A in support for the preparations for WRC-15 and to continue the work on the study Questions assigned to WP 5A. Based on the reports from the Working Groups, the following overall objectives are tentatively set for the 12th meeting of WP 5A.

## 4.1 Amateur and amateur-satellite

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

* Complete sharing studies taking into account feedback from contributing groups.
* Prepare draft new Report(s) on sharing studies as appropriate.
* Develop CPM text for sections 5 and 6, considering and incorporating from contributing groups.
* Transmit draft new Report(s) on sharing studies to contributing groups as appropriate for final review.
* Transmit draft CPM text to contributing groups for review.

– 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.

## 4.2 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 PDN Report ITU-R M.[LMS.ATG];

– development of a preliminary draft revision of Recommendation ITU-R M.1076;

– development of a preliminary draft revision of Recommendation ITU-R M.1450;

– development of a preliminary draft revision of Recommendation ITU-R F.1763;

– 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 preliminary draft new Question on Radiocommunication for short‑range hearing aids operating in public access systems.

## 4.3 PPDR

– Continue development of CPM text for Agenda item 1.3 based on the results of studies and input contributions.

– Continue development of the new Report on Broadband PPDR under Agenda item 1.3 and the revision of Report ITU-R M.2033, and other Reports and Recommendations, as appropriate, based on input contributions;

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

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

## 4.4 Interference and sharing

– Continue the revision of Report ITU-R M.2116 on characteristics of broadband wireless access systems operating in the land mobile service for use in sharing studies;

– Further progress the development of the Preliminary Draft New [Report/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.

## 4.5 New technologies

– Further develop the working document towards a PDN Report ITU-R M.[LMS.CRS2] on cognitive radio systems in the land mobile service in accordance with Question ITU‑R 241-2/5 and Resolution ITU-R 58, with an aim to finalize its mature parts as a draft new Report M.[LMS.CRS2]. Any open-issue parts of the working document will be further developed for a working document towards a preliminary draft new Report M.[LMS.CRS3]. In this case, new work on the report M.[LMS.CRS3] will be initiated and the work plan on CRS will be updated.

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

– Continue the development of the working document towards a preliminary draft new Recommendation ITU-R M.[AUTO] on systems characteristics of automotive radars operating in the frequency band 76–81 GHz for ITS applications, in support of WRC-15 Agenda item 1.18.

## 4.6 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.

## 4.7 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 (#12) is scheduled to be held from 18-28 November 2013 in Geneva. **The deadline for the submission of contributions is 16:00 hours UTC, 11 November 2013[[1]](#footnote-1).**

On 18 November 2013, starting at 14:00 hours, WP 5A will hold a Seminar on “Cognitive Radio Systems and the use of white spaces”, to which the working parties participants and any other ITU members are invited to attend, see <http://www.itu.int/ITU-R/go/rwp5A> under “Related activities”.

# 6 Progression of the work and concluding remarks

The work will continue by correspondence towards the twelfth meeting of WP 5A, in particular towards the joint development with WP 5C of the Handbook on “Guidance for bilateral frequency use discussions on fixed/land mobile systems in the frequency range 29.7 MHz – [39.5 GHz]” (see Appendix 3 of [Annex 3](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!N03!MSW-E) to [Doc. 5A/198](http://www.itu.int/md/R12-WP5A-C-0198/en) for the terms of reference).

[Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0306!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).

At the closing plenary the chairman thanked the WWRF for the successful workshop they organized and presented on Tuesday, 21 May 2013, from 15:45 to 19:00 hours, followed by a reception, and indicated that these events provide a useful venue for informal discussions.

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, Mmes Gabrielle Owen and Amy Sanders and Messrs Brennan Price, Hitoshi Yoshino, and Paul Najarian; and the BR, in particular the WP 5A Counsellor, Mr Sergio Buonomo, for the excellent support provided at the meetings.

1. Members are strongly advised to pay attention to the strict time deadline (see [5/LCCE/40](http://www.itu.int/md/R00-SG05-CIR-0040/en)). [↑](#footnote-ref-1)