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| **Radiocommunication Study Groups** |  |
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|  | **Document 5A/769-E** |
| **12 June 2023** |
| **English only** |
| Chairman, Working Party 5A |
| report on the TWENTY-ninTH meeting of working party 5a |
| (Mérida, México, 9-18 May 2023) |

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Annexes

[1](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N01%21MSW-E.docx) Working Party 5A Management

[2](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N02%21MSW-E.docx) Consolidation of texts approved by Working Party 5A

[3](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N03%21MSW-E.docx) Consolidation of reports from the Working Groups of Working Party 5A

[4](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N04%21MSW-E.docx) Preliminary draft revisions of the Questions assigned to Working Party 5A

[5](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N05%21MSW-E.docx) Preliminary draft new Report ITU-R M.[AMATEUR.CHARACTERISTICS] – Amateur and amateur-satellite services characteristics and usage in the 1 240-1 300 MHz frequency band (*Source:* Doc. 5A/TEMP/302R1)

[6](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N06%21MSW-E.docx) Preliminary draft new Recommendation ITU-R M.[AS GUIDANCE] – Guidance on technical and operational measures for the use of the frequency band 1 240-1 300 MHz by the Amateur and Amateur-satellite service in order to protect the RNSS (space-to-Earth) (*Source:* Doc. 5A/TEMP/301R1)

[7](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N07%21MSW-E.docx) Working document towards a preliminary draft revision of Report ITU-R M.2442-0 – Current and future usage of railway radiocommunication systems between train and trackside (*Source:* Doc. 5A/TEMP/310)

[8](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N08%21MSW-E.docx) Working document towards a preliminary draft new Recommendation ITU-R M.[RSTT\_FRQ] – Harmonization of spectrum for existing and future Railway Radiocommunication Systems between Train and Trackside (RSTT) within the frequency bands allocated to the mobile service (*Source:* Doc. 5A/TEMP/309)

[9](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N09%21MSW-E.docx) Working document towards a preliminary draft revision of Recommendation ITU-R M.1450-5 – Characteristics of broadband radio local area networks
(*Source:* Doc. 5A/TEMP/306R2)

[10](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N10%21MSW-E.docx) Working document towards a preliminary draft revision of Recommendation ITU-R M.1801-2 - Radio interface standards for broadband wireless access systems, including mobile and nomadic applications, in the mobile service (*Source:* Doc. 5A/TEMP/303)

[11](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N11%21MSW-E.docx) Working document towards a preliminary draft new Report ITU-R M.[AUDIO-PMSE\_LMS] – [Status and trends regarding regional and global usage of audio applications of PMSE in the land mobile service] (*Source:* Doc. 5A/TEMP/311)

[12](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N12%21MSW-E.docx) Working document towards a preliminary draft Revision of Resolution ITU-R 55-3 – “ITU-R studies of disaster prediction, detection, mitigation and relief”
(*Source:* Doc. 5A/TEMP/298)

[13](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N13%21MSW-E.docx) Preliminary draft revision of Report ITU-R M.2377-1 - Radiocommunication objectives and requirements for Public Protection and Disaster Relief
(*Source:* Doc. 5A/TEMP/287R1)

[14](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N14%21MSW-E.docx) Working document towards a preliminary draft revision of Report ITU-R M.2415-0 –Spectrum needs for Public Protection and Disaster Relief (PPDR)
(*Source:* Doc. 5A/TEMP/288)

[15](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N15%21MSW-E.docx) Working document towards a preliminary draft new Report ITU-R M.[UTILITIES] – Utility Radiocommunication Systems operating in the land mobile service
(*Source:* Doc. 5A/TEMP/299R1)

[16](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N16%21MSW-E.docx) Working document towards a preliminary draft revision of Report ITU-R M.2116 – Characteristics of broadband wireless access systems operating in the land mobile service for use in sharing studies (*Source:* Doc. 5A/TEMP/284R2)

[17](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N17%21MSW-E.docx) Preliminary draft new Report ITU-R M.[CAV] – Connected Automated Vehicles (*Source:* Doc. 5A/TEMP/314R1)

[18](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N18%21MSW-E.docx) List of output documents

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

[Annex 11](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0221%21N11%21MSW-E.docx) to [Doc. 5A/221](https://www.itu.int/md/R19-WP5A-C-0221/en): Working document towards preliminary draft revision of Recommendation ITU‑R M.2134-0 – “[Receiver / Technical and operational] characteristics and protection criteria for systems in the mobile service in the frequency range 27.5-29.5 GHz for use in sharing and compatibility studies.”

[Annex 27](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0491%21N27%21MSW-E.docx) to [Doc. 5A/491](https://www.itu.int/md/R19-WP5A-C-0491/en): Working document towards a preliminary draft new Report ITU-R M.[LMS.SPEC.NEED.ABOVE.275 GHz] – Spectrum needs for land-mobile service applications in the frequency above 275 GHz.

[Annex 17](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0597%21N17%21MSW-E.docx) to [Doc. 5A/597](https://www.itu.int/md/R19-WP5A-C-0597/en): Working document towards a preliminary draft new Report ITU-R
M.[BB-WAS.FREQ] – Frequencies used by systems based on radio interface standards for broadband wireless access.

[Annex 24](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0597%21N24%21MSW-E.docx) to [Doc. 5A/597](https://www.itu.int/md/R19-WP5A-C-0597/en): Working document towards a preliminary draft new Report ITU-R M.[LMS.CONDITIONS>275GHZ] – Assessment of mitigation techniques and specific conditions to be applied to the land mobile service applications in the frequency bands 296-306 GHz, 313-318 GHz and 333‑356 GHz, to ensure the protection of earth exploration-satellite service (passive) applications in accordance with RR No. **5.564A**.

[Annex 14](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N14%21MSW-E.docx) to [Doc. 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en): Working document towards a draft report for sharing and compatibility studies in compliance with Resolution **246 (WRC-19)** in relation with WRC-23 agenda item 1.3.

[Annex 20](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N20%21MSW-E.docx) to [Doc. 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en): Working document towards a draft new revision of Recommendation ITU‑R F.1401-1 – Considerations for the identification of possible frequency bands for fixed wireless access and related sharing studies.

[Annex 21](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N21%21MSW-E.docx) to [Doc. 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en): Working document towards a preliminary draft revision of Recommendation ITU-R F.1490-1 – Generic requirements for fixed wireless access systems.

[Annex 22](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N22%21MSW-E.docx) to [Doc. 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en): Working document towards a preliminary draft revision of Recommendation ITU-R F.1763-1 – Radio interface standards for broadband wireless access systems in the fixed service operating below 66 GHz.

Management documents referred to in the Report

List of input documents: [Document 5A/759R1](https://www.itu.int/md/R19-WP5A-C-0759/en)

Final list of participants: [Document 5A/768](https://www.itu.int/md/R19-WP5A-C-0768)

1 Introduction

Working Party 5A (WP 5A) held its twenty-ninth (29th) meeting in Mérida, México, from 9 to 18 May 2023, chaired by José Costa (Canada). The meeting participants (see list in [Doc. 5A/768](https://www.itu.int/md/R19-WP5A-C-0768/en)) included up to 225 participants (note that the actual number was less because some participants represented more than one organization), from 31 countries representing 31 Member States, 9 recognized operating agencies, 12 scientific or industrial organizations, 4 regional and other international organizations, 1 associate, 3 academia, and the ITU staff. WP 5A held three plenary sessions during the meeting period (on 9, 15 and 18 May 2023, see the meeting agendas in Documents 5A/ADM/[156R1](https://www.itu.int/md/R19-WP5A-ADM-0156/en), [182R1](https://www.itu.int/md/R19-WP5A-ADM-0182/en) and [192R1](https://www.itu.int/md/R19-WP5A-ADM-0192/en)).

At the opening plenary Comisionado Presidente Ingeniero Juárez of the Instituto Federal de Telecomunicaciones ([IFT](https://www.ift.org.mx/)) gave a warm welcome speech to the participants. The chairmen of WP 5A and WP 5C thanked him and the Administration of Mexico for hosting these meetings of WP 5A and WP 5C.

The Working Party 5A opening plenary meeting agenda is in [Document 5A/ADM/[156R1](https://www.itu.int/md/R19-WP5A-ADM-0156/en)](https://www.itu.int/md/R19-WP5A-ADM-0108/en) and the SG 5 Counsellor presented information about the meeting ([Doc. 5A/INFO/7](https://www.itu.int/md/R19-WP5A-INF-0007/en)).

The meeting dealt with 60 input documents and upon their consideration the meeting prepared 35 output temporary documents (see list in [Annex 18](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N18%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

The Chairman’s Report of the twenty-eighth meeting of WP 5A ([Doc. 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en)) was approved, including the objectives for the 29th meeting as presented in section 4 of [Document 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en).

The structure of WP 5A for this meeting was adopted as presented in section 2.2 of [Annex 1](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N01%21MSW-E.docx) to [Document 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en).

[Annex 1](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N01%21MSW-E.docx) to this meeting report contains the management aspects of WP 5A, including a summary of the status of the texts that are the responsibility of WP 5A, the WP 5A contacts in external organizations, and the use of electronic facilities.

The chairman indicated that all the submissions from WP 5A to the nineteenth meeting of Study Group 5 (28 November 2022) had been approved by Member States ([Doc. 5A/720](http://www.itu.int/md/R19-WP5A-C-0720)) and that the CPM report to WRC-23 has been published ([CPM Report for WRC-23](https://www.itu.int/md/R19-CPM23.2-R-0001/en)). The chairman also pointed to the results of the CCT ([CCV](https://www.itu.int/en/ITU-R/study-groups/rccv/)+[SCV](https://www.itu.int/en/ITU-T/committees/scv/)) meeting on 18 April 2023 ([Doc. CCT/1](https://extranet.itu.int/rsg-meetings/ccv/Share/Forms/Column%20view.aspx?RootFolder=%2Frsg%2Dmeetings%2Fccv%2FShare%2FCCT%20meeting%202023%2D07%2D21%2FInput%20contributions&FolderCTID=0x0120000789F5E09D8A5C40AA7463D2A5D78C21&View=%7B9FCCA57C%2DC565%2D4377%2DA0AB%2DE76EEDBDF011%7D)) and the 30th meeting of the RAG, 1-3 May 2023 ([CA/267](https://www.itu.int/md/R00-CA-CIR-0267/en)).

The chairman drew the attention of the meeting to the WP 5A texts that are listed in section 1 of Annex 1 to [Document 5A/708](http://www.itu.int/md/R19-WP5A-C-0708/en), the [Guide to the use of ITU-R texts related to the land mobile service](http://www.itu.int/oth/R0A06000001/en), and the [Guide to the use of ITU-R texts relating to the amateur and amateur-satellite services](http://www.itu.int/oth/R0A06000067) asking each Working Group to review the texts assigned to them.

The work program for the WP 5A meeting was adopted as presented in [Document 5A/ADM/154](http://www.itu.int/md/R19-WP5A-ADM-0154/en), with additions as shown in [Table 1](#t1) below. The initial draft schedule was adopted as per [Document 5A/ADM/155](http://www.itu.int/md/R19-WP5A-ADM-0155/en) and as the meetings of the working groups progressed adjustments to the schedule were made, with the final list in [Document 5A/ADM/155(Rev.7)](http://www.itu.int/md/R19-WP5A-ADM-0155/en).

The chairman asked the meeting participants to review the list of contacts that appears in section 4 of Annex 1 to [Document 5A/708](http://www.itu.int/md/R19-WP5A-C-0708/en) and inform him of any necessary changes (the updated list appears in section 4 of [Annex 1](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N01%21MSW-E.docx) to [Document 5A/769](http://www.itu.int/md/R19-WP5A-C-0769/en) 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 also pointed out the guidelines for the preparation of WP 5A texts, including the [Format of ITU-R Recommendations](http://www.itu.int/dms_pub/itu-r/oth/0a/0E/R0A0E0000970001MSWE.docx) and the [ITU English Style Guide](http://www.itu.int/SG-CP/docs/styleguide.doc) in section 2.3 of [Annex 1](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N01%21MSW-E.docx), and guidance on vocabulary work in Section 2.1 §12 of Annex 1, pointing out that the latest revision is dated 7 September 2022.

At the opening Plenary of WP 5A three Liaison Rapporteur reports were presented, on [Disaster Relief](http://www.itu.int/ITU-R/index.asp?category=information&link=emergency&lang=en) by Amy Sanders, USA, in [Document 5A/760](https://www.itu.int/md/R19-WP5A-C-0760/en), on certain countries in Region 1 by Gabrielle Owen, The Netherlands, in [Document 5A/761](https://www.itu.int/md/R19-WP5A-C-0703/en), and on certain countries in Region 2 by Jonathan Siverling, USA, in [Document 5A/762](https://www.itu.int/md/R19-WP5A-C-0762/en); and at the second plenary a report on certain countries in Region 3 by Hitoshi Yoshino, Japan, in [Document 5A/764](https://www.itu.int/md/R19-WP5A-C-0764/en). The chairman thanked the liaison rapporteurs for the valuable information presented in these reports and he asked that, due to lack of time, any questions be addressed by email directly to the respective liaison rapporteurs.

At the closing plenary 3 liaison statements that arrived from WP 5C were noted for information, Documents [5A/765](http://www.itu.int/md/R19-WP5A-C-0765), [5A/766](http://www.itu.int/md/R19-WP5A-C-0766) and [5A/767](http://www.itu.int/md/R19-WP5A-C-0767).

# 2 Objectives and work programme for the meeting

The objectives for the meeting were adopted as set forth in the Chairman’s Report of the twenty‑eighth meeting of WP 5A (section 4 of [Doc. 5A/708](http://www.itu.int/md/R19-WP5A-C-0708/en)) noting that need to consider also the proposals in the input contributions for the twenty-ninth meeting, in particular those related to the WRC-23 agenda items and topics under the responsibility of WP 5A. Actions regarding future updates of documents that have a joint WG5A/5C 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 based on [Document 5A/ADM/154(Rev.1)](http://www.itu.int/md/R19-WP5A-ADM-0154/en) as shown in [Table 1](#t1), including the organization of the work for the meeting (the documents in the rows “Reports” and “General” are assigned to all the Working Groups). This table shows the assignments of contributions to a single working group to ensure that all contributions are considered; nevertheless, any contribution to the meeting can also be considered by the other working groups as needed.

TABLE 1

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

The carried forward documents from previous meeting are highlighted in green (17 documents).
New contributions: 708-767 (60 documents)

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| **Working Party 5A (Chairman:** **José Costa****, Canada)** |
| **Reports** | [708](https://www.itu.int/md/R19-WP5A-C-0708/en) (Chairman, WP 5A); [720](https://www.itu.int/md/R19-WP5A-C-0720/en) (Chairman, WP 5A); [760](http://www.itu.int/md/R19-WP5A-C-0760) (Disaster Relief L.R.); [761](http://www.itu.int/md/R19-WP5A-C-0761) (L.R. #1); [762](http://www.itu.int/md/R19-WP5A-C-0762) (L.R. #2); [764](http://www.itu.int/md/R19-WP5A-C-0764) (L.R. #3) |
| **General** | [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 4](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N04%21MSW-E.docx) (Questions); [716](https://www.itu.int/md/R19-WP5A-C-0716/en) (ITU-D SG 2); [759](https://www.itu.int/md/R19-WP5A-C-0759/en) (list of documents); [765](http://www.itu.int/md/R19-WP5A-C-0765) (WP 5C); [766](http://www.itu.int/md/R19-WP5A-C-0766) (WP 5C); [767](http://www.itu.int/md/R19-WP5A-C-0767) (WP 5C); [768](http://www.itu.int/md/R19-WP5A-C-0768) (list of participants) |

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| **Working Group 1: Amateur Services (Chairman:** **Dale Hughes****, Australia)** |
| **WRC-23 AI 9.1 b)** [Res. **774**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0023PDFE.pdf) | *Characteristics:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 5](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N05%21MSW-E.docx) (WP 5A); [730](https://www.itu.int/md/R19-WP5A-C-0730/en) (IARU); [755](https://www.itu.int/md/R19-WP5A-C-0755/en) (France)*Proposed new Rec. M.[AS GUIDANCE]:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 6](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N06%21MSW-E.docx) (WP 5A); [724](https://www.itu.int/md/R19-WP5A-C-0724/en) (Canada); [729](https://www.itu.int/md/R19-WP5A-C-0729/en) (IARU); [731](https://www.itu.int/md/R19-WP5A-C-0731/en) (Japan); [735](https://www.itu.int/md/R19-WP5A-C-0735/en) (Russian F.); [744](https://www.itu.int/md/R19-WP5A-C-0744/en) (China); [756](https://www.itu.int/md/R19-WP5A-C-0756/en) (France, Korea)*Proposed LS to WP 4C:* [754](https://www.itu.int/md/R19-WP5A-C-0754/en) (France) |
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| **Working Group 2: Systems and standards (Chairman:** **Lang Baozhen****, China)** |
| **Railways****(incl.** [**Res. 240 (WRC-19)**](https://www.itu.int/oth/R0A060000A0/en)**)** | *Rep. M.2442:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 7](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N07%21MSW-E.docx) (WP 5A); [740](https://www.itu.int/md/R19-WP5A-C-0740/en) (Korea); [749](https://www.itu.int/md/R19-WP5A-C-0749/en) (China)*Rec. RSTT Frequencies:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 8](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0597%21N08%21MSW-E.docx) (WP 5A); [732](https://www.itu.int/md/R19-WP5A-C-0732/en) (Japan); [750](https://www.itu.int/md/R19-WP5A-C-0750/en) (China); [752](https://www.itu.int/md/R19-WP5A-C-0752/en) (France) |
| **Broadband Wireless Access** | *Rec. M.2134:* [221](https://www.itu.int/md/R19-WP5A-C-0221/en) [Annex 11](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0221%21N11%21MSW-E.docx) (WP 5A)*Rec. M.1801:* [597](https://www.itu.int/md/R19-WP5A-C-0597/en) [Annex 16](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0597%21N16%21MSW-E.docx) (WP 5A)*Rep. M.[BB-WAS-FREQ]:* [597](https://www.itu.int/md/R19-WP5A-C-0597/en) [Annex 17](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0597%21N17%21MSW-E.docx) (WP 5A); [654](http://www.itu.int/md/R19-WP5A-C-0654) (Canada); [675](http://www.itu.int/md/R19-WP5A-C-0675) (IEEE); [723](https://www.itu.int/md/R19-WP5A-C-0723/en) (Canada)*Rec. M.1450:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 9](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N09%21MSW-E.docx) (WP 5A); [725](https://www.itu.int/md/R19-WP5A-C-0725/en) (Canada); [727](https://www.itu.int/md/R19-WP5A-C-0727/en) (France); [743](https://www.itu.int/md/R19-WP5A-C-0743/en) (China, France)*Q.215/5 FWA:* [5A/19](https://www.itu.int/md/R19-WP5A-C-0019/en) (Chairmen, WP 5A and WP 5C)*Rec. F.1401:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 20](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N20%21MSW-E.docx) (WP 5A)*Rec. F.1490:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 21](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N21%21MSW-E.docx) (WP 5A)*Rec. F.1763:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 22](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N22%21MSW-E.docx) (WP 5A)*F.[IMT-FWB]:* [5A/221](https://www.itu.int/md/R19-WP5A-C-0221/en) [Annex 18](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0221%21N18%21MSW-E.docx) (WP 5A); [5A/329](https://www.itu.int/md/R19-WP5A-C-0329/en) (Egypt); [5A/336](https://www.itu.int/md/R19-WP5A-C-0336/en) (UAE) |
| **Land mobile systems** | *PSME/Res.59:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 12](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N12%21MSW-E.docx) (WP 5A); [709](https://www.itu.int/md/R19-WP5A-C-0709/en) (WP 5C); [718](https://www.itu.int/md/R19-WP5A-C-0718/en) (WP 5D); [721](https://www.itu.int/md/R19-WP5A-C-0721/en) (WP 6A); [722](https://www.itu.int/md/R19-WP5A-C-0722/en) (WP 6A); [741](https://www.itu.int/md/R19-WP5A-C-0741/en) (Germany); [758](https://www.itu.int/md/R19-WP5A-C-0758/en) (Germany) |
| **Air to Ground**  | *Update of Rep. ITU-R M.2282:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 10](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N10%21MSW-E.docx) (WP 5A); [748](https://www.itu.int/md/R19-WP5A-C-0748/en) (China); [753](https://www.itu.int/md/R19-WP5A-C-0753/en) (France) |
| **RLAN characteristics** | *Support WG 4 with characteristics for sharing & coexistence studies* |
| [**Resolution ITU-R 60**](https://www.itu.int/pub/R-RES-R.60) | [715](https://www.itu.int/md/R19-WP5A-C-0715/en) (ITU-D SG 2) |

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| **Working Group 3: Mission critical applications (Chairman:** **Amy Sanders****, USA)** |
| **Update of ITU-R Reports** | *M.2377:* [597](https://www.itu.int/md/R19-WP5A-C-0597/en) [Annex 20](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0597%21N20%21MSW-E.docx) (WP 5A)*M.2415:* [751](https://www.itu.int/md/R19-WP5A-C-0751en) (France) |
| **Update of ITU-R Resolutions** | *Res. 55:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 13](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N13%21MSW-E.docx) (WP 5A) |
| **Liaison activities** | [714](https://www.itu.int/md/R19-WP5A-C-0714/en) (ITU-D SG 1) |
| **Utilities** | [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 11](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N11%21MSW-E.docx) (WP 5A); [719](https://www.itu.int/md/R19-WP5A-C-0719/en) (Ireland); [739](https://www.itu.int/md/R19-WP5A-C-0739/en) (Korea); [757](https://www.itu.int/md/R19-WP5A-C-0757/en) (UTCAL) |

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| **Working Group 4: Interference and sharing (Chairman:** **Michael Kraemer****, Germany)** |
| **Sharing studies (general)** | *Rep. M.2116:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 15](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N15%21MSW-E.docx) (WP 5A); [728](https://www.itu.int/md/R19-WP5A-C-0728/en) (France)*Non-Beam WPT:* [711](https://www.itu.int/md/R19-WP5A-C-0711/en) (WP 5C) |
| **Vocabulary** | [710](https://www.itu.int/md/R19-WP5A-C-0710/en) (ATDI); [712](https://www.itu.int/md/R19-WP5A-C-0712/en) (WP 5C); [763](http://www.itu.int/md/R19-WP5A-C-0763) (CCT) |
| **RLAN sharing (**[**Res. 229**](https://www.itu.int/oth/R0A0600009D/en)**)** | [529](https://www.itu.int/md/R19-WP5A-C-0529/en) (WP 7C); [676](http://www.itu.int/md/R19-WP5A-C-0676) (France) |
| **AI 1.2: IMT** [**Res. 245**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0002PDFE.pdf) |  |
| **AI 1.3: 3.6-3.8 R1** [**Res. 246**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0003PDFE.pdf) | [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 14](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N14%21MSW-E.docx) (WP 5A) |
| **AI 1.4: HIBS** [**Res. 247**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0004PDFE.pdf) |  |
| **AI 1.5: 470-960 R1** [**Res. 235**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0036PDFE.pdf) |  |
| **AI 1.8: Res.155&5.484B** [**Res. 171**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0027PDFE.pdf) |  |
| **AI 1.9 Appendix 27** [**Res. 429**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0009PDFE.pdf) |  |
| **AI 1.10: AMS** [**Res. 430**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0010PDFE.pdf) |  |
| **AI 1.12: EESS @45** [**Res. 656**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0012PDFE.pdf) |  |
| **AI 1.13: SRS** [**Res. 661**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0013PDFE.pdf) |  |
| **AI 1.14: EESS @231** [**Res.662**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0014PDFE.pdf) |  |
| **AI 1.15: FSS** [**Res. 172**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0015PDFE.pdf) |  |
| **AI 1.16: FSS ESIM** [**Res. 173**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0016PDFE.pdf) |  |
| **AI 1.17: ISL** [**Res. 773**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0017PDFE.pdf) |  |
| **AI 1.18: MSS** [**Res. 248**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0018PDFE.pdf) |  |
| **AI 1.19: FSS @17** [**Res. 174**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0019PDFE.pdf) |  |
| **AI 9.1 a): SWS** [**Res. 657**](https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0022PDFE.pdf) |  |
| **AI 9.1 d): EESS@36** [**Doc.573**](https://www.itu.int/dms_pub/itu-r/md/16/wrc19/c/R16-WRC19-C-0573%21%21MSW-E.docx) |  |
| [**Res. 731**](https://www.itu.int/oth/R0A060000A1/en)**: >71 GHz** | [597](https://www.itu.int/md/R19-WP5A-C-0597/en) [Annex 24](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0597%21N24%21MSW-E.docx) (WP 5A); [607](https://www.itu.int/md/R19-WP5A-C-0607/en) (WP 3M); [613](http://www.itu.int/md/R19-WP5A-C-0613) (WP 1A); [713R1](https://www.itu.int/md/R19-WP5A-C-0713/en) (WP 5C); [717](https://www.itu.int/md/R19-WP5A-C-0717/en) (ETSI); [736](https://www.itu.int/md/R19-WP5A-C-0736/en) (Russian F.) |

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| **Working Group 5: New technologies (Chairman:** **Hitoshi Yoshino****, Japan)** |
| **ITS****(incl.** [**Rec. 208 (WRC‑19)**](https://www.itu.int/oth/R0A060000A3/en)**)** | *CAV (*[*Question ITU-R 261/5*](https://www.itu.int/pub/R-QUE-SG05.261)*):* [691](http://www.itu.int/md/R19-WP5A-C-0691) (Germany); [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 16](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N16%21MSW-E.docx) (WP 5A); [733](https://www.itu.int/md/R19-WP5A-C-0733/en) (Japan); [734](https://www.itu.int/md/R19-WP5A-C-0734/en) (Japan); [737](https://www.itu.int/md/R19-WP5A-C-0737/en) (USA); [738](https://www.itu.int/md/R19-WP5A-C-0738/en) (Korea); [742](https://www.itu.int/md/R19-WP5A-C-0742/en) (Germany); [745](https://www.itu.int/md/R19-WP5A-C-0745/en) (China); [746](https://www.itu.int/md/R19-WP5A-C-0746/en) (China); [747](https://www.itu.int/md/R19-WP5A-C-0747/en) (China)*Rec. M.2121:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 17](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N17%21MSW-E.docx) (WP 5A); [726](https://www.itu.int/md/R19-WP5A-C-0726/en) Att.1 (Canada)*Rep. M.2444:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 18](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N18%21MSW-E.docx) (WP 5A); [726](https://www.itu.int/md/R19-WP5A-C-0726/en) Att.2 (Canada) |
| [**Q.256/5**](https://www.itu.int/pub/R-QUE-SG05.256)**: >275 GHz** | *Operational aspects:* [491](https://www.itu.int/md/R19-WP5A-C-0491/en) [Annex 27](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0491%21N27%21MSW-E.docx) (WP 5A) |
| **M2M** | *Rep. M.2479:* [708](https://www.itu.int/md/R19-WP5A-C-0708/en) [Annex 19](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N19%21MSW-E.docx) (WP 5A) |

The Working Groups developed preliminary draft revised/new Recommendations, Reports, Questions, and liaison statements, and progress reports on the work. The detailed reports from the Working Groups are contained in [Annex 3](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N03%21MSW-E.docx). The texts proposed by these Working Groups in TEMP documents ([Annex 18](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N18%21MSW-E.docx)) were considered by WP 5A and those agreed are either included in annexes to this Report for further work to be considered at future meetings of WP 5A or were approved by WP 5A as liaison statements to other groups or for submission to Study Group 5 ([Annex 2](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N02%21MSW-E.docx)).

# 3 Executive summary of the results of the meeting

## 3.1 Summary of documents approved by WP 5A

The list of texts that are the responsibility of Working Party 5A (WP 5A) has been updated in line with [Document 5/1(Rev.3)](http://www.itu.int/md/R19-SG05-C-0001/en) including the assignment of responsibilities to the working groups of WP 5A and identification of topics for the Recommendations and Reports ([Annex 1](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N01%21MSW-E.docx)).

At a previous meeting, WP 5A already decided to implement factual editorial updates of the guides to the use of ITU-R texts related to the radiocommunication services under the responsibility of WP 5A between the meetings of WP 5A (i.e., updates of references to Recommendations, Reports and Handbooks as they are approved), while amendments of substance will be considered for approval at the WP 5A meetings. Consequently, at this meeting no updates were necessary.

The consolidation of all the texts approved by WP 5A at its 29th meeting, including 4 proposals to Study Group 5 and 7 liaison statements, appears in [Annex 2](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N02%21MSW-E.docx) to [Document 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en).

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

**3.2.1 Draft revised Recommendation proposed for PSAA**

Working Party 5A proposes to Study Group 5 the following draft revised Recommendation for consideration for the procedure of simultaneous adoption and approval (PSAA).

– Draft revision of Recommendation ITU-R M.2121-0 – “Harmonization of frequency bands for Intelligent Transport Systems in the mobile service” (see Doc. [5/128](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=R19-SG05-C-0128)).

**3.2.2 Draft revised Reports proposed for approval**

Working Party 5A proposes to Study Group 5 the following draft revised Reports for consideration for approval:

– Draft revision of Report ITU-R M.2444-0 – “Examples of arrangements for Intelligent Transport Systems deployments under the mobile service” (see Doc. [5/127](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=R19-SG05-C-0127)).

– Draft revision of Report ITU-R M.2479-0 – “The use of land mobile systems, excluding IMT, for machine-type communications” (see Doc. [5/129](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=R19-SG05-C-0129)).

**3.2.3 Suppression of Recommendation**

Working Party 5A proposes to Study Group 5 the suppression of Recommendation [ITU-R M.1075](http://www.itu.int/rec/R-REC-M.1075/en) (1993) “Leaky feeder systems in the land mobile services”, since the information is very old and out of date.

**3.2.4 Suppression of Reports**

Working Party 5A proposes to Study Group 5 the suppression of four ITU-R Reports, because the information is very old and out of date:

| **Type** | **Series** | **Number** | **Rev** | **Title** | **Approved** |
| --- | --- | --- | --- | --- | --- |
| Rep. | M. | [319](http://www.itu.int/publ/R-REP-M.319) | 7 | Characteristics of equipment and principles governing the assignment of frequency channels between 25 and 1 000 MHz for land mobile services | 31 Dec 90 |
| Rep. | M. | [902](http://www.itu.int/publ/R-REP-M.902) | 1 | Leaky-feeder systems in the land mobile service | 31 Dec 90 |
| Rep. | M. | [904](http://www.itu.int/publ/R-REP-M.904) | 2 | Automatic determination of location and guidance in the land mobile service | 31 Dec 90 |
| Rep. | M. | [1021](http://www.itu.int/publ/R-REP-M.1021) | 0 | Equipment characteristics for digital transmission in the land mobile services | 31 Dec 86 |

**3.3 Amateur and amateur-satellite services**

Continued the work on a Preliminary Draft New Recommendation ITU-R M.[AS.GUIDANCE] “Guidance on technical and operational measures for the use of the frequency band 1 240-1 300 MHz by the amateur and amateur-satellite service in order to protect the radionavigation-satellite service (space-to-Earth)” ([Annex 6](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N06%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)) and a Preliminary Draft New Report ITU-R M.[AMATEUR CHARACTERISTICS] “Amateur and amateur-satellite services characteristics and usage in the 1 240-1 300 MHz frequency band” ([Annex 5](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N05%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)). A Liaison statement was send to WP 4C regarding the progression of the work on topic 9.1b) ([Annex 2](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N02%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

**3.4 Systems and standards**

*RSTT:* continued the development of a working document towards a preliminary draft revision of Report ITU-R M.2442-0 – “Current and future usage of railway radiocommunication systems between train and trackside” ([Annex 7](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N07%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)) and a working document towards a preliminary draft new Recommendation ITU-R M.[RSTT\_FRQ] – “Spectrum Harmonization for Railway Radiocommunication Systems between Train and Trackside (RSTT) within the frequency bands allocated to the mobile service” ([Annex 8](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N08%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

*RLAN & BWA standards:* continued the development of a working document towards a preliminary draft revision of Recommendation ITU-R M.1450-5 – “Characteristics of broadband radio local area networks” ([Annex 9](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N09%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)). No contributions were received at the 29th meeting toward developing the working document towards a preliminary draft revision of Recommendation ITU-R M.1801-2 – “Radio interface standards for broadband wireless access systems, including mobile and nomadic applications, in the mobile service operating below 6 GHz”; the meeting did a detailed review of the working document ([Annex 10](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N10%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)) and a liaison statement was send to WP 5D seeking assistance for the completion of the information on IMT radio interface technologies ([Annex 2](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N02%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

During the discussions on RSTT and RLAN/BWA it became clear that there are diverging views about the need for sharing studies before such applications could be mentioned in ITU-R deliverables related to certain spectrum bands and this issue will need to be further addressed at the next WP 5A meeting to find a way forward and might require SG 5 guidance eventually.

*Programme Making and Special Events (PMSE):* continued the work on the development of working document towards a preliminary draft new Report ITU-R M.[AUDIO-PMSE\_LMS] – [Status and trends regarding regional and global usage of audio applications of PMSE in the land mobile service] ([Annex 11](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N11%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)). A liaison statement was sent to the CCT regarding the definition of PMSE ([Annex 2](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N02%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

*Systems for public mobile communications with aircraft:* continued the work on the development of working document towards a preliminary draft revision of Report ITU-R M.2282-0 – “Systems for public mobile communications with aircraft”; however, some member states raised concerns about this work being conducted in WP 5A and at the closing plenary of WP 5A one administration prevented the working document from being annexed to the WP 5A chairman’s report, even though it was clarified that Report ITU-R M.2282-0 has been assigned to WP 5A by SG 5 (cf. [Doc. 5/1(Rev.3)](https://www.itu.int/md/R19-SG05-C-0001/en)). The chairman of WP 5A will send the working document to SG 5 seeking guidance.

**3.5 Mission critical applications**

The working document towards a preliminary draft revision of Resolution ITU-R 55-3 “ITU-R studies of disaster prediction, detection, mitigation and relief” was reviewed and updated to “preliminary draft” for completion in September for submission to SG 5 and RA-23 ([Annex 12](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N12%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)). A liaison statement was sent to other WPs which have been assigned Resolution 55 by their parent study groups ([Annex 2](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N02%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

The draft revisions of Questions ITU-R 37-6/5 and ITU-R 209-6/5 were updated ([Annex 4](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N04%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

The meeting reviewed in detail the working document towards a preliminary draft revision of Report [ITU-R M.2377-1](https://www.itu.int/pub/R-REP-M.2377) “Radiocommunication objectives and requirements for Public Protection and Disaster Relief” and it was agreed to elevate it to “preliminary draft” ([Annex 13](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N13%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

Initiated the development of a working document towards a preliminary draft revision of Report ITU-R M.2415-0 “Spectrum needs for Public Protection and Disaster Relief (PPDR)” ([Annex 14](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N14%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

Continued the development of a working document towards a preliminary draft new Report ITU-R M.[UTILITIES] – “Utility Radiocommunication Systems operating in the land mobile service” ([Annex 15](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N15%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

**3.6 Interference and sharing**

Updated the working document towards a revision of Report ITU-R M.2116 ([Annex 16](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N16%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)) and sent 3 liaison statements ([Annex 2](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N02%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)): a reply liaison statement to the CCT related to the revision of Recommendation ITU-R V.431-8, a reply liaison statement to WP 3M on P-series Recommendations above 100 GHz, and a reply liaison statement to WP 1A related to future revisions of Report ITU-R SM.2352.

**3.7 New technologies**

Develop a preliminary draft new Report ITU-R M.[CAV] on Connected Automated Vehicles (CAV) ([Annex 17](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N17%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

Developed a preliminary draft new Question [FUTURE-ITS-CAV] on studies related to ITS, CAV and future topics ([Annex 4](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N04%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

**3.8 Land Mobile Handbook**

No new activity since the publication of the 2021 edition of [Volume 4](http://www.itu.int/pub/R-HDB-49/en) of the Land Mobile Handbook – “Intelligent Transport Systems” (<https://www.itu.int/pub/R-HDB-49/en>).

**3.9 Vocabulary**

Work on vocabulary for topics under the responsibility of WP 5A continues and liaison activity with other groups and the CCV is taking place.

# 4 Objectives for the thirtieth meeting of WP 5A

The principal objective for the 30th meeting of Working Party 5A is to complete the work that may need to be conducted by WP 5A in support of the preparations for WRC-23 and to continue the work on the study questions assigned to WP 5A.

Working Party 5A will also need to complete the draft revisions of questions assigned to WP 5A contained in [Annex 4](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N04%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en) for submission to SG 5.

Based on the reports from the Working Groups of WP 5A, the following overall objectives are tentatively set for the 30th meeting of WP 5A:

1) Amateur and amateur-satellite services

– Based on contributions, complete all work on WRC-23 agenda item 9.1b) Report and Recommendation ([Annexes 5](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N05%21MSW-E.docx) and [6](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N06%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en))

– Respond to liaison notes from other groups and update other groups as appropriate.

– Deal with any other work relevant to the amateur and amateur-satellite service that is brought to the meeting.

2) Systems and standards

– Development of a working document towards a preliminary draft new Recommendation ITU R M.[RSTT\_FRQ] – “Spectrum Harmonization for Railway Radiocommunication Systems between Train and Trackside (RSTT)” ([Annex 8](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N08%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Development of a working document towards a preliminary draft revision of Report ITU R M.2442-0 – “Current and future usage of railway radiocommunication systems between train and trackside” ([Annex 7](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N07%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Development of working document towards a preliminary draft revision of Report ITU R M.2282-0 – “Systems for public mobile communications with aircraft”.[[1]](#footnote-1)

– Development of a working document towards a preliminary draft revision of Recommendation ITU-R M.1450-5 – “Characteristics of broadband radio local area networks“ ([Annex 9](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N09%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Development of a working document towards a preliminary draft revision of Recommendation ITU-R M.1801-2 – “Radio interface standards for broadband wireless access systems, including mobile and nomadic applications, in the mobile service”
([Annex 10](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N10%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Development of a working document towards a preliminary draft revision of Recommendation ITU-R M.2134-5 – “Receiver characteristics and protection criteria for systems in the mobile service in the frequency range 27.5-29.5 GHz for use in sharing and compatibility studies” ([Annex 11](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0221%21N11%21MSW-E.docx) to [Doc. 5A/221](https://www.itu.int/md/R19-WP5A-C-0221/en)).

– Development of a working document towards a preliminary draft new Report ITU-R M.[AUDIO-PMSE\_LMS] – [Status and trends regarding regional and global usage of audio applications of PMSE in the land mobile service] ([Annex 11](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N11%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Development of a working document towards a preliminary draft new Report ITU-R M.[bb WAS.freq] – “Frequencies used by systems based on radio interface standards for broadband wireless access” ([Annex 17](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0597%21N17%21MSW-E.docx) to [Doc. 5A/597](https://www.itu.int/md/R19-WP5A-C-0597/en)).

– Development of a working document towards draft new revision of Recommendation ITU-R F.1401-1 – “Considerations for the identification of possible frequency bands for fixed wireless access and related sharing studies” ([Annex 20](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N20%21MSW-E.docx) to [Doc. 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en)).

– Development of a working document towards a preliminary draft revision of Recommendation ITU-R F.1490-1 – “Generic requirements for fixed wireless access systems” ([Annex 21](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N21%21MSW-E.docx) to [Doc. 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en)).

– Development of a working document towards a preliminary draft revision of Recommendation ITU-R F.1763-1 – “Radio interface standards for broadband wireless access systems in the fixed service operating below 66 GHz” ([Annex 22](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N22%21MSW-E.docx) to [Doc. 5A/708](https://www.itu.int/md/R19-WP5A-C-0708/en)).

 – Continue the work on the WAS Study Questions based on input contributions.

3) Mission critical applications

– Complete the draft revision of Resolution ITU-R 55-3, “ITU-R studies of disaster prediction, detection, mitigation and relief”, based on input contributions, with the objective of submitting it to the meeting of Study Group 5 in September 2023 ([Annex 12](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N12%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Finalize the draft revision of Report ITU-R [M.2377-1, Radi](https://www.itu.int/pub/R-REP-M.2377)ocommunication objectives and requirements for Public Protection and Disaster Relief, based on input contributions
([Annex 13](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N13%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Further develop the draft revisions of Questions ITU-R 37-6/5 and ITU-R 209-6/5, based on input contributions, with the objective of submitting them to the meeting of Study Group 5 in September 2023 ([Annex 4](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N04%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Further develop the working document towards the revision of Report ITU-R M.2415, based on input contributions ([Annex 14](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N14%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Further develop the working document towards a preliminary draft new Report ITU-R M.[UTILITIES], “Utility radiocommunication systems operating in the land mobile service, based on input contributions” ([Annex 15](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N15%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

4) Interference and sharing

– Progress the ongoing revision of Report [ITU-R](https://www.itu.int/pub/R-REP-M.2116) [M.2116](https://www.itu.int/pub/R-REP-M.2116), in particular for WAS/RLAN parameters for the 6 GHz range ([Annex 16](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N16%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Continue work on the working document towards a preliminary draft new Report ITU-R M.[LMS.CONDITIONS>275GHz] (Annex 24 to [Doc. 5A/597](https://www.itu.int/md/R19-WP5A-C-0597/en)).

5) New technologies

– Continue the work on the development of a preliminary draft new Report ITU-R M.[CAV] on Connected Automated Vehicles (CAV) ([Annex 17](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N17%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en))

– Continue to develop a preliminary draft new Question [FUTURE-ITS-CAV],
([Annex 4](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N04%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-0769/en)).

– Continue the development of the working document towards a preliminary draft new Report ITU-R M.[LMS.SPEC.NEED.ABOVE.275 GHZ] – “Operational aspects of land mobile service applications in the frequency above 275 GHz.” ([Annex 27](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0708%21N27%21MSW-E.docx) to [Doc. 5A/491](https://www.itu.int/md/R19-WP5A-C-0491/en)).

6) Land Mobile Handbook

– Consider the need to update the handbooks that are the responsibility of WP 5A. The development of future volumes will be contribution driven.

7) Vocabulary

– Continue the development of the land mobile vocabulary and liaise with the CCV.

# 6 Future meetings

At the closing plenary the chairman proposed to keep the next meeting of WP 5A (#30), which is the final meeting of the study period, as previously scheduled from 12-21 September 2023 (8 days); however, one member state expressed serious difficulties with this because September is a very busy month with both ITU and regional meetings and proposed to limit the 30th meeting to 5 days, 18-22 September 2023. To this proposal there was an objection from the chairman of WG 5A-1 on the basis that more time will be needed to complete the deliverables in support of WRC-23 agenda item 9.1 topic b). The chairman of WP 5A then proposed as a compromise that WG 5A-1 would meet for a few days the week before WG 5A and there were no objections to this approach. After the meeting, the chairman of WG 5A-1 conducted an email consultation with the regular WG 5A-1 participants and they agreed to meet starting in the afternoon of Wednesday, 13 September, including part of the weekend if necessary. A preceding short WP 5A plenary session, limited in scope to amateur services matters, will start the meeting, with WG 5A-1 being the only group to meet in the first week.

Refer to the forthcoming Circular Letter [5/LCCE](https://www.itu.int/md/R00-SG05-CIR/e) announcing the meeting for details. Members are strongly advised to pay attention to the strict time deadline for contributions. It is also advised to submit the contributions early in the case there are technical difficulties with either the email servers or the files submitted, because the revision of input contributions is not possible after the deadline.

The chairman of WP 5A welcomes comments on the draft ADM document with the assignment of contributions to the working groups for the 30th meeting in September 2023 that is posted in the WP 5A Share Folder [here](https://extranet.itu.int/rsg-meetings/sg5/wp5a/Share/Forms/Column%20view.aspx?RootFolder=%2Frsg%2Dmeetings%2Fsg5%2Fwp5a%2FShare%2FDraft%20ADM%20documents%20for%20September%202023&FolderCTID=0x012000FB880722B4622243913B1114C70648D5&View=%7B627C3C95%2DCC37%2D49E0%2D8D8A%2D33AC93C6F497%7D).

# 7 Progression of the work and concluding remarks

The work may continue by correspondence; however, no formal correspondence group was formed at the 29th meeting of WP 5A. The correspondence groups conduct their work using the Share Point facilities as described in section 6.5 of [Annex 1](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N01%21MSW-E.docx) to [Doc. 5A/769](https://www.itu.int/md/R19-WP5A-C-769/en).

[Annex 1](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0769%21N01%21MSW-E.docx) 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 9-5 (section 4).

The Working Party 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 Liaison Rapporteurs, Mses. Gabrielle Owen and Amy Sanders and Messrs. Jonathan Siverling, Paul Najarian, Hitoshi Yoshino, and Brian Copsey; the LMH Rapporteur, Mr Takahiko Yamazaki; the Vocabulary Rapporteur, Mr Brian Patten; and the BR, in particular the SG 5 Counsellor, Mr Uwe Löwenstein, and his team in the BR Study Group Department for the excellent support provided at the meetings, in particular Mses. Emma Norton-Viard and Virginia Fernández, as well as the organizers and moderators that supported the meeting with the use of Zoom platform and the local secretariat of the host country, in particular Ms. Mariana Alday and her team, for the excellent support and facilities provided during the meeting.

1. Due to the objection of one administration to conduct this work in WP 5A, the progression of the work will need to wait for the guidance from Study Group 5. [↑](#footnote-ref-1)