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| **Radiocommunication Study Groups** |  |
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|  | **Annex 2 toDocument 5A/221-E** |
| **9 December 2020** |
| **English only** |
| Annex 2 to Working Party 5A Chairman’s Report |
| CONSOLIDATION OF TEXTS APPROVED BY WORKING PARTY 5A |
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# 1 Documents approved by Working Party 5A

The list of texts that are the responsibility of Working Party (WP) 5A has been updated in line with Doc. [5/1](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](http://www.itu.int/md/dologin_md.asp?lang=en&id=R19-WP5A-C-0221!N01!MSW-E) to [Doc.  5A/221](http://www.itu.int/md/R19-WP5A-C-0221/en)). The two guides to the use of ITU-R texts have been updated editorially:

– [Guide to the use of ITU-R texts relating to the land mobile service, including wireless access in the fixed service](https://www.itu.int/oth/R0A06000001/en)

– [Guide to the use of ITU-R texts relating to the amateur and amateur-satellite services](https://www.itu.int/oth/R0A06000067)

At its 24th meeting Working Party 5A approved a new edition (2020 Edition) of [Volume 4](http://www.itu.int/pub/R-HDB-49/en) of the Land Mobile Handbook – Intelligent Transport Systems, which has been submitted to the BR for publication and it is expected to be published by the end of January 2021 in 6 languages.

WP 5A approved 14 liaison statements to other groups and text for one circular letter; see sections 2-5 below.

# 2 Summary of proposals and documents submitted by WP 5A to Study Group 5

None from the 24th meeting of Working Party 5A.

# 3 Liaison statements from Working Party 5A to ITU-R Groups

| Liaisonstatement to[[1]](#footnote-1) | Title/Subject | Document number | Source:5A/TEMP/ |
| --- | --- | --- | --- |
| **WP 1A****WP 5C****WP 5D** | Liaison statement to Working Parties 1A, 5C and 5D – Working document towards a preliminary draft new Report ITU-R M.[UCS] on Utility Communications Systems | [1A/64](https://www.itu.int/md/R19-WP1A-C-0064/en)[5C/137](https://www.itu.int/md/R19-WP5C-C-0137/en)[5D/391](https://www.itu.int/md/R19-WP5D-C-0391/en) | 79R1 |
| **WP 1A**WP 5BWP 5D | Reply liaison statement to Working Party 1A (copy to Working Parties 5B and 5D for information) – Liaison between ITU-R and CISPR on the protection of radio services in the 6-40 GHz frequency range | [1A/66](https://www.itu.int/md/R19-WP1A-C-0066/en)[5B/226](https://www.itu.int/md/R19-WP5B-C-0226/en)[5D/392](https://www.itu.int/md/R19-WP5D-C-0392/en) | 76R1 |
| **WP 3J****WP 3K****WP 3M** | Liaison statement to Working Parties 3J, 3K and 3M – Use of the 252-296 GHz frequency band by the land-mobile service applications | [3J/70](https://www.itu.int/md/R19-WP3J-C-0070/en)[3K/79](https://www.itu.int/md/R19-WP3K-C-0079/en)[3M/127](https://www.itu.int/md/R19-WP3M-C-0127/en) | 65R1 |
| **WP 3M****WP 4C** | Liaison statement to Working Parties 4C and 3M – Update on work towards WRC-23 agenda item 9.1, topic b) | [3M/129](https://www.itu.int/md/R19-WP3M-C-0129/en)[4C/120](https://www.itu.int/md/R19-WP4C-C-0120/en) | 56 |
| **WP 4C**WP 3M | Liaison statement to Working Party 4C (copy to Working Party 3M for information) – Information for studies on WRC-23 agenda item 9.1, topic b) Applications and typical operational characteristics of the amateur and amateur-satellite services operating in the frequency band 1 240-1 300 MHz | [4C/119](https://www.itu.int/md/R19-WP4C-C-0119/en)[3M/128](https://www.itu.int/md/R19-WP3M-C-0128/en) | 55R1 |
| **WP 5B** | Reply liaison statement to Working Party 5B – Initial information for studies on WRC-23 agenda item 1.9 | [5B/234](https://www.itu.int/md/R19-WP5B-C-0234/en) | 69 |
| **WP 5B** | Reply liaison statement to Working Party 5B – Initial information for studies on WRC-23 agenda item 1.10 | [5B/235](https://www.itu.int/md/R19-WP5B-C-0235/en) | 70 |
| **WP 5B** | Reply liaison statement to Working Party 5B – Technical and operational characteristics and protection of the Land Mobile Service for WRC-23 agenda item 1.8 | [5B/222](https://www.itu.int/md/R19-WP5B-C-0222/en) | 73R1 |
| **WP 5D** | Reply liaison statement to Working Party 5D – Initial information for studies on WRC-23 agenda item 1.4 | [5D/401](https://www.itu.int/md/R19-WP5D-C-0401/en) | 61R1 |
| **WP 7C**WP 1AWP 3JWP 3KWP 3MWP 5C | Liaison statement to Working Party 7C (copy to Working Parties 1A, 3J, 3K, 3M, and 5C for Information) – 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** | [7C/115](https://www.itu.int/md/R19-WP7C-C-0115/en)[1A/65](https://www.itu.int/md/R19-WP1A-C-0065/en)[3J/67](https://www.itu.int/md/R19-WP3J-C-0067/en)[3K/74](https://www.itu.int/md/R19-WP3K-C-0074/en)[3M/120](https://www.itu.int/md/R19-WP3M-C-0120/en)[5C/138](https://www.itu.int/md/R19-WP5C-C-0138/en) | 74R1 |
| **WP 7C** | Reply liaison statement to Working Party 7C – Initial information for studies on WRC-23 agenda item 9.1, topic a) | [7C/128](https://www.itu.int/md/R19-WP7C-C-0128/en) | 90 |

# 4 Liaison statements from Working Party 5A to other ITU groups

| Liaison to | Title/Subject | References | Source:5A/TEMP/ |
| --- | --- | --- | --- |
| **ITU-T SG 15** | Reply liaison statement to ITU-T Study Group 15 – Working document towards a preliminary draft new Report ITU-R M.[UCS] on Utility Communications Systems | [Section 4.1](#s41) | 80R1 |
| **ITU-T FG-VM** | Reply liaison statement to ITU-T Focus Group on Vehicular Multimedia (FG-VM) – Technical reports on use cases and requirements as well as architecture for vehicular multimedia | [Section 4.2](#s42) | 52R1 |

## 4.1 Reply liaison statement to ITU-T Study Group 15 – Working document towards a preliminary draft new Report ITU-R M.[UCS] on Utility Communications Systems

Working Party (WP) 5A would like to thank Question 18 of ITU-T Study Group 15 ([Q18/15](https://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q18.aspx)) for the information on the “Technical paper on the use of G.hn technology for smart grid”.

Working Party 5A would also like to inform Question 18 of ITU-T Study Group 15 ([Q18/15](https://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q18.aspx)) that in its 9-20 November 2020 meeting further progress has been made on the drafting of a preliminary draft new Report ITU-R M.[UCS] that describes radiocommunication systems that can be used by electric, gas and water utilities and highlights how utilities can utilize these systems to support their operations.

The latest version of the working document towards a preliminary draft new Report ITU-R M.[UCS] is attached to the WP 5A Chairman’s Report from the November 2020 meeting (see [Annex 12](https://www.itu.int/dms_pub/itu-r/md/19/wp5a/c/R19-WP5A-C-0221%21N12%21MSW-E.docx) to [Document 5A/221](https://www.itu.int/md/R19-WP5A-C-0221/en)).

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| **Status:** For information |  |
| **Contact:** Brett Kilbourne | **E-mail:** brett.kilbourne@utc.org  |

## 4.2 Reply liaison statement to ITU-T Focus Group on Vehicular Multimedia (FG-VM) – Technical reports on use cases and requirements as well as architecture for vehicular multimedia

Working Party (WP) 5A appreciates the liaison statement from FG-VM conveying the technical reports on use cases and requirements as well as architecture for vehicular multimedia.

WP 5A intends to consider this information in its future work, in particular, as it develops its New Report on Connected Automated Vehicles (CAVs). It should be noted that WP 5A, in previous ITS work, and in intended CAV work, is focused on the short-range, peer-to-peer use cases for Connected Vehicles, which are mainly safety-related. There is likely to be some overlap with specific Vehicular Multimedia use cases, but WP 5A understands that the main focus of ITU-T-FG-VM is on Wide Area Network (WAN) connectivity with vehicles and multimedia infotainment use cases. WP 5A intends to study the ITU-T FG-VM documents for convergence or divergence in overlapping use cases. WP 5A will be very interested in understanding the spectrum requirements for emerging CAV use cases relating to its peer-to-peer, safety-related focus on CAV communications.

In order to foster better communications with ITU-T FG-VM, WP 5A suggests that the following ITU-R Reports and Recommendations provide pertinent background information on recent ITS work completed in WP 5A:

Recommendation [ITU-R M.1452](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Frec%2FR-REC-M.1452%2Fen&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910756423&sdata=mSNLHbzn3tu1%2F974KmQS%2FHfkY%2FHHQH0KbAM14VOOLv4%3D&reserved=0) “Millimetre wave vehicular collision avoidance radars and radiocommunication systems for intelligent transport system application”

[Recommendation ITU-R M.1453](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Frec%2FR-REC-M.1453%2Fen&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910766419&sdata=1YbuWK4zmNu%2BpXJyvADVHaYMS3vVVHOafPx%2FlWNcjjM%3D&reserved=0) “Intelligent transport systems - Dedicated short range communications at 5.8 GHz”

[Recommendation ITU-R M.1890](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Frec%2FR-REC-M.1890%2Fen&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910776415&sdata=CBuOuYhEUdJNbQg4WHWI354uhqpyN%2FGZBKu3kiIG48A%3D&reserved=0) “Operational radiocommunication objectives and requirements for advanced Intelligent Transport Systems”

Recommendation [ITU-R M.2057](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Frec%2FR-REC-M.2057%2Fen&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910776415&sdata=5lDdQD1wB3Ruy2f3gccyRk2UKXun3dbsH518QBQWAes%3D&reserved=0) “Systems characteristics of automotive radars operating in the frequency band 76-81 GHz for intelligent transport systems applications”

[Recommendation ITU-R M.2084](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Frec%2FR-REC-M.2084%2Fen&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910786409&sdata=5zXuXWKV2DX4W%2BagKxKyLosbTS5D0nbUDZ36jHXJ%2FH4%3D&reserved=0) “Radio interface standards of vehicle-to-vehicle and vehicle-to-infrastructure two-way communications for Intelligent Transport System applications”

[Recommendation ITU-R M.2121](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Frec%2FR-REC-M.2121%2Fen&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910786409&sdata=e66gFradfU5rnXYvJk8rDM8Ez79C5kaeGjW2t2%2FwnJo%3D&reserved=0) “Harmonization of frequency bands for Intelligent Transport Systems in the mobile service”

Report [ITU-R M.2228](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Fpub%2FR-REP-M.2228&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910786409&sdata=NEEk3iq5MrQ5zmXaagnptqFSh0waqXwOUrOODnYOd8I%3D&reserved=0) “Advanced intelligent transport systems (ITS) radiocommunications”

[Report ITU-R M.2322](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Fpub%2FR-REP-M.2322&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910796403&sdata=nHkxl4IzfKtGh8Ub%2F3khDAwVgzaDN2wk8%2FU1hdgJYME%3D&reserved=0) “Systems characteristics and compatibility of automotive radars operating in the frequency band 77.5-78 GHz for sharing studies”

[Report ITU-R M.2444](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Fpub%2FR-REP-M.2444&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910796403&sdata=uMtOaYJrjtRq7JEUVKkYJ6jZ9i0QcPvvCuATrCXVMgw%3D&reserved=0) “Examples of arrangements for Intelligent Transport Systems deployments under the mobile service”

[Report ITU-R M.2445](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Fpub%2FR-REP-M.2445&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910806401&sdata=uRQauQmAtYyyXFXnBb2JmJTfREgW4RGPtPFngwh8Dtk%3D&reserved=0) “Intelligent transport systems (ITS) usage”

Working document toward a Preliminary Draft New Report ITU-R M.[IMT.C-V2X] “Application of the Terrestrial Component of IMT for Cellular-V2X” (Attachment 3.8 to Document 5D/360)

Handbook on [Land Mobile (including Wireless Access) – Volume 4: Intelligent Transport Systems](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.itu.int%2Fpub%2Fpublications.aspx%3Flang%3Den%26parent%3DR-HDB-49&data=02%7C01%7CTom.Schaffnit%40dot.gov%7C813dcfdab2e54a26b34708d83219da81%7Cc4cd245b44f04395a1aa3848d258f78b%7C0%7C0%7C637314433910806401&sdata=aQLHd7XEH9z6573nGh%2B%2BptYMuL9SYOs1BoRjw0wKLuw%3D&reserved=0) (Edition 2020 to be available by the end of January 2021).

WP 5A looks forward to cooperating with ITU-T FG-MV on this and other matters of common interest.

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| **Status:** For information |  |
| **Contact:** Sam Oyama | **E-mail:** oyamaits@gmail.com |

# 5 Liaison statements from Working Party 5A to external organizations

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| --- | --- | --- | --- |
| Liaison to | Title/Subject | References | Source:5A/TEMP/ |
| **BWA external organizations**[[2]](#footnote-2) | Liaison statement to external organizations on BWA – “Use of the 252-296 GHz frequency range by land-mobile service applications” | [Section 5.1](#s51) | 64R1 |
| **Members** | Text for a circular letter from the BR – Spectrum use and spectrum needs of non-IMT applications/systems of the land mobile service within the frequency band 470-960 MHz in Region 1 | [CACE/966](https://www.itu.int/md/R00-CACE-CIR-0966/en) | 89 |

## 5.1 Liaison statement to external organizations on BWA – “Use of the 252-296 GHz frequency range by land-mobile service applications”

At its November 2020 meeting, ITU-R Working Party 5A (WP 5A) considered the coexistence between land-mobile and fixed service applications operating in the frequency range 252-296 GHz. The working document includes an example of the technical and operational characteristics of LMS applications operating in the frequency range 252‑296 GHz, in which those in the frequency range 275-296 GHz are provided by Report ITU‑R M.2417.

As part of its initiation of coexistence studies, WP 5A kindly invites the external organizations to submit their contributions to the next WP 5A meeting with respect to technical and operational characteristics of LMS applications operating in the frequency range 252-296 GHz. The external organizations are also encouraged to provide the deployment scenarios of LMS applications operating in the frequency range 252-296 GHz.

The next meeting of WP 5A is scheduled for 28 April - 11 May 2021 and the deadline for submission of contributions is 16:00 hours UTC, 21 April 2021. WP 5A will consider materials provided by the external organizations and take necessary action as appropriate upon receipt of input contributions at WP 5A meeting in April/May 2021.

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| **Status**: For action |  |
| **Deadline**: Preferably prior to the planned May 2021 meeting of WP 5A. |
| **Contact**: Uwe Loewenstein, SG 5 Counsellor | **E-mail:** uwe.loewenstein@itu.int |

1. Bold font indicates the primary recipients; “copy to” the others. [↑](#footnote-ref-1)
2. 3GPP, 3GPP RAN, 3GPP RAN “ITU-R Ad-Hoc-Group”, 3GPP2, 4G Americas, ARIB, ATIS, AWG, BBF, CCSA, CDG, CEPT ECC CPG, CEPT ECC WG FM, ETSI, ETSI ERM-TG41, ETSI TC BRAN, ETSI TC DECT, ETSI TC ERM, ETSI TC MSG, GSA, GSMA, iBurst Association, IEC TC 65, IEEE, MFA, TIA, TIA TR-45, TIA TR-45.5, TTA, TTC, WGA, Wi-Fi Alliance, WiMAX Forum, XGP Forum. [↑](#footnote-ref-2)