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| --- | --- | --- |
|  | **Radiocommunication Study Groups** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
|  |  |
|  | **Annex 2 toDocument 5A/298-E** |
| **5 December 2016** |
| **English only** |
| Annex 2 to Working Party 5A Chairman’s Report |
| consolidation of TEXTS APPROVED BY working party 5a |
|  |

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[6.5 Liaison statement to 3GPP (copy for information to CCSA) – Intelligent
Transport Systems (ITS) 12](#_Toc468719144)

# 1 Documents approved by Working Party 5A

The list of texts that are the responsibility of WP 5A has been updated in line with [Doc. 5/1(Rev.1)](http://www.itu.int/md/R15-SG05-C-0001), 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=R15-WP5A-C-0298!N01!MSW-E)).

Working Party 5A approved an update to the “[Guide to the use of ITU-R texts relating to the amateur and amateur-satellite services](http://www.itu.int/oth/R0A06000067)” for posting on the WP 5A webpage: <http://www.itu.int/ITU-R/go/rwp5a>

At its seventeenth meeting, Working Party 5A approved 34 liaison statements to other groups. See sections [3](#s3), [4](#s4), [5](#s5) and [6](#s6) below.

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

### 2.1 Draft revised Recommendation proposed for PSAA

Working Party 5A approved the following draft revised Recommendation for consideration for adoption by Study Group 5.

– Draft revision of Recommendation ITU R M.1732-1 – *Characteristics of systems operating in the amateur and amateur-satellite services for use in sharing studies* – [Doc. 5/32](http://www.itu.int/md/R15-SG05-C-032/en)

### 2.2 Draft revised and new Reports

Working Party 5A approved the following draft revised and new Reports for consideration for approval by Study Group 5.

– Draft revision of Report ITU-R M.2014-2 – *Digital land mobile systems for dispatch traffic* – [Doc. 5/33](http://www.itu.int/md/R15-SG05-C-033/en)

– Draft new Report ITU-R M.[RAIL.LINK] – *Introduction to railway communication systems in certain countries* [– Doc. 5/29](http://www.itu.int/md/R15-SG05-C-029/en)

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

| **Liaison statement to[[1]](#footnote-1)** | **Title/Subject** | **Document number** | **Source:5A/TEMP/** |
| --- | --- | --- | --- |
| **WP 6A** | Reply liaison statement to Working Party 6A – Amateur service characteristics in the 50-54 MHz frequency band to be used in sharing studies with the amateur service under agenda item 1.1 | [6A/174](http://www.itu.int/md/R15-WP6A-C-0174) | 100 |
| **WP 5B** | Liaison statement to Working Party 5B – Wind profiler radar characteristics in the 50-54 MHz frequency band to be used in sharing studies with the amateur service under agenda item 1.1 | [5B/198](http://www.itu.int/md/R15-WP5B-C-0198) | 101 |
| **WP 1A** | Reply liaison statement to Working Party 1A – Assessment of the impact of other emissions to radiocommunication services | [1A/133](http://www.itu.int/md/R15-WP1A-C-0133) | 127R1 |
| **ITU-D SG1**CCVWP 4AWP 4BWP 4CWP 5BWP 5DWP 6A | *Source: Working Parties 5A and 5C:*Liaison statement to ITU-D Study Group 1 (SG 1), Question 2/1 (copy to ITU-R Coordination Committee for Vocabulary (CCV); Working Parties 4A, 4B and 4C; WP 5B and 5D; WP 6A for information) – Broadband access technologies, including IMT, for developing countries. What is the definition of Broadband? | [CCV/18](http://www.itu.int/md/R15-CCV-C-0018/en)[4A/212](http://www.itu.int/md/R15-WP4A-C-0212)[4B/56](http://www.itu.int/md/R15-WP4B-C-0056)[4C/127](http://www.itu.int/md/R15-WP4C-C-0127)[5B/196](http://www.itu.int/md/R15-WP5B-C-0196)[5D/395](http://www.itu.int/md/R15-WP5D-C-0395)[6A/179](http://www.itu.int/md/R15-WP6A-C-0179/en) | 77R2 |
| **WP 1B**WP 4AWP 4CWP 5D | *Source: Working Parties 5A and 5C:* Liaison statement to Working Party 1B (copy to Working Parties 4A, 4C, and 5D) – Innovative regulatory tools to support enhanced shared use of the spectrum | [1B/110](http://www.itu.int/md/R15-WP1B-C-0110)[4A/213](http://www.itu.int/md/R15-WP4A-C-0213)[4C/128](http://www.itu.int/md/R15-WP4C-C-0128)[5D/396](http://www.itu.int/md/R15-WP5D-C-0396) | 78R2 |
| **BWA Ext. Org.WASN Ext. Org.**WP 5D | Liaison statement to BWA and WASN external organizations (copy for information to Working Party 5D) – Request for Information on Machine Type Communications (MTC) in the land mobile service | [5D/411](http://www.itu.int/md/R15-WP5D-C-0411) | 79R1 |
| **WP 6B**WP 5D | Reply liaison statement to ITU-R Working Party 6B (copy to Working Party 5D) – Global Platform | [6A/176](http://www.itu.int/md/R15-WP6A-C-0176)[6B/105](http://www.itu.int/md/R15-WP6B-C-0105)[6C/162](http://www.itu.int/md/R15-WP6C-C-0162)[5D/403](http://www.itu.int/md/R15-WP5D-C-0403) | 95R1 |
| **WP 5D** | Liaison statement to Working Party 5D – Request for further information regarding the applicability of Recommendation ITU-R M.1390 | [5D/400](http://www.itu.int/md/R15-WP5D-C-0400) | 71 |
| **WP 5D** | Liaison statement to Working Party 5D – The use of International Mobile Telecommunications for broadband public protection and disaster relief applications | [5D/410](http://www.itu.int/md/R15-WP5D-C-0410) | 73R1 |
| **WP 5C** | Liaison statement to Working Party 5C – WRC-19 agenda item 1.14 | [5C/183](http://www.itu.int/md/R15-WP5C-C-0183) | 82R1 |
| **WP 4A**WP 5CWP 5D | Liaison statement to Working Party 4A (copy to Working Parties 5C and 5D for information) – Working document towards a preliminary draft new Recommendation ITU-R S.[INTERF.AREA] | [4A/222](http://www.itu.int/md/R15-WP4A-C-0222)[5C/181](http://www.itu.int/md/R15-WP5C-C-0181)[5D/404](http://www.itu.int/md/R15-WP5D-C-0404) | 85R1 |
| **WP 5B** | Liaison statement to Working Party 5B – WRC-19 agenda item 9.1, issue 9.1.5 | [5B/203](http://www.itu.int/md/R15-WP5B-C-0203/en) | 86R1 |
| **WP 1A****WP 1B**WP 4AWP 4CWP 5BWP 5CWP 5DWP 7C | Liaison statement to Working Parties 1A and 1B (copy for information to Working Parties 4A, 4C, 5B, 5C, 5D and 7C) – Sharing schemes in the land mobile service on the basis of geographical use | [1A/132](http://www.itu.int/md/R15-WP1A-C-0132)[1B/112](http://www.itu.int/md/R15-WP1B-C-0112)[4A/214](http://www.itu.int/md/R15-WP4A-C-0214)[4C/129](http://www.itu.int/md/R15-WP4C-C-0129)[5B/197](http://www.itu.int/md/R15-WP5B-C-0197)[5C/175](http://www.itu.int/md/R15-WP5C-C-0175)[5D/397](http://www.itu.int/md/R15-WP5D-C-0397)[7C/97](http://www.itu.int/md/R15-WP7C-C-0097) | 106R1 |
| **WP 3K****WP 3M** | Liaison statement to Working Parties 3K and 3M – Propagation models for compatibility studies regarding WRC-19 agenda item 1.16 | [3K/90](http://www.itu.int/md/R15-WP3K-C-0090) [3M/144](http://www.itu.int/md/R15-WP3M-C-0144) | 107R1 |
| **WP 4A** | Liaison statement to Working Party 4A – Mobile service technical and operational characteristics and protection criteria for use in sharing studies under WRC-19 agenda item 1.5 | [4A/226](http://www.itu.int/md/R15-WP4A-C-0226) | 112R1 |
| **WP 5B** | Liaison statement to Working Party 5B – WRC-19 agenda item 1.9.2 | [5B/199](http://www.itu.int/md/R15-WP5B-C-0199) | 113R1 |
| **WP 7C**WP 3LWP 5BWP 5CWP 6A | Liaison statement to Working Party 7C (copied to Working Parties 3L, 5B, 5C and 6A for information) – Technical and operational characteristics for systems operating within the 40-50 MHz frequency range | [7C/99](http://www.itu.int/md/R15-WP7C-C-0099)[3L/30](http://www.itu.int/md/R15-WP3L-C-0030)[5B/200](http://www.itu.int/md/R15-WP5B-C-0200)[5C/182](http://www.itu.int/md/R15-WP5C-C-0182)[6A/175](http://www.itu.int/md/R15-WP6A-C-0175) | 114R1 |
| **WP 4A** | Liaison statement to Working Party 4A – WRC-19 agenda item 9.1, issue 9.1.3 | [4A/224](http://www.itu.int/md/R15-WP4A-C-0224) | 115R1 |
| **TG 5/1**WP 3JWP 3KWP 3MWP 4AWP 4BWP 4CWP 5BWP 5CWP 5DWP 6AWP 7BWP 7CWP 7D | Liaison statement to Task Group 5/1 (copied for information to Working Parties 3J, 3K, 3M, 4A, 4B, 4C, 5B, 5C, 5D, 6A, 7B, 7C and 7D) – Preparations for WRC-19 agenda item 1.13 | [5-1/32](http://www.itu.int/md/R15-TG5.1-C-0032/en)[3J/78](http://www.itu.int/md/R15-WP3J-C-0078)[3K/89](http://www.itu.int/md/R15-WP3K-C-0089)[3M/143](http://www.itu.int/md/R15-WP3M-C-0143)[4A/225](http://www.itu.int/md/R15-WP4A-C-0225)[4B/58](http://www.itu.int/md/R15-WP4B-C-0058)[4C/131](http://www.itu.int/md/R15-WP4C-C-0131)[5B/201](http://www.itu.int/md/R15-WP5B-C-0201)[5C/184](http://www.itu.int/md/R15-WP5C-C-0184)[5D/406](http://www.itu.int/md/R15-WP5D-C-0406)[6A/177](http://www.itu.int/md/R15-WP6A-C-0177)[7B/123](http://www.itu.int/md/R15-WP7B-C-0123)[7C/100](http://www.itu.int/md/R15-WP7C-C-0100)[7D/65](http://www.itu.int/md/R15-WP7D-C-0065) | 116R1 |
| **WP 7B**WP 5D | Liaison statement to Working Party 7B (copy for information to Working Party 5D) – Technical characteristics for WRC-19 agenda item 1.3 | [7B/121](http://www.itu.int/md/R15-WP7B-C-0121)[5D/405](http://www.itu.int/md/R15-WP5D-C-0405) | 118R1 |
| **WP 4A** | Reply liaison statement to Working Party 4A – FSS/BSS technical parameters for sharing studies under WRC-19 agenda item 1.16 | [4A/223](http://www.itu.int/md/R15-WP4A-C-0223) | 119 |
| **WP 4A**WP 3MWP 5CWP 5DWP 7D | Liaison statement to Working Party 4A (copy to Working Parties 3M, 5C, 5D and 7D for information) – Operational requirements and technical characteristics of systems in the frequency band 51.4-52.4 GHz | [4A/221](http://www.itu.int/md/R15-WP4A-C-0221)[3M/142](http://www.itu.int/md/R15-WP3M-C-0142)[5C/180](http://www.itu.int/md/R15-WP5C-C-0180)[5D/402](http://www.itu.int/md/R15-WP5D-C-0402)[7D/63](http://www.itu.int/md/R15-WP7D-C-0063) | 130R1 |
| **BWA Ext. Org.**WP 1AWP 3JWP 3KWP 3MWP 5CWP 7CWP 7D | Liaison statement to BWA external organizations (copy for information to Working Parties 1A, 3J, 3K, 3M, 5C, 7C and 7D) – Preliminary information on land mobile service applications associated with work on WRC-19 agenda item 1.15 | [1A/134](http://www.itu.int/md/R15-WP1A-C-0134)[3J/75](http://www.itu.int/md/R15-WP3J-C-0075)[3K/88](http://www.itu.int/md/R15-WP3K-C-0088)[3M/139](http://www.itu.int/md/R15-WP3M-C-0139)[5C/176](http://www.itu.int/md/R15-WP5C-C-0176)[7C/98](http://www.itu.int/md/R15-WP7C-C-0098)[7D/63](http://www.itu.int/md/R15-WP7D-C-0063) | 68R1 |
| **WP 1A**WP 3JWP 3KWP 3MWP 5CWP 7CWP 7D | Liaison statement to Working Party 1A (copy for information to Working Parties 3J, 3K, 3M, 5C, 7C and 7D) – Preliminary information on land mobile service applications associated with work on WRC-19 agenda item 1.15 | [1A/131](http://www.itu.int/md/R15-WP1A-C-0131)[3J/74](http://www.itu.int/md/R15-WP3J-C-0074)[3K/87](http://www.itu.int/md/R15-WP3K-C-0087)[3M/138](http://www.itu.int/md/R15-WP3M-C-0138)[5C/174](http://www.itu.int/md/R15-WP5C-C-0174)[7C/96](http://www.itu.int/md/R15-WP7C-C-0096)[7D/62](http://www.itu.int/md/R15-WP7D-C-0082) | 69R1 |
| **WP 1B** | Reply liaison statement to Working Party 1B | [1B/111](http://www.itu.int/md/R15-WP1B-C-0111) | 80R1 |
| **WP 5D** | Reply liaison statement to ITU-R Working Party 5D – Work on WRC-19 agenda item 9.1, issue 9.1.8 | [5D/401](http://www.itu.int/md/R15-WP5D-C-0401) | 81 |

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

| **Liaison statement to** | **Title/Subject** | **Document number** | **Source:5A/TEMP/** |
| --- | --- | --- | --- |
| **ITU-D SG1**CCVWP 4AWP 4BWP 4CWP 5BWP 5DWP 6A | *Source: Working Parties 5A and 5C:*Liaison statement to ITU-D Study Group 1 (SG 1), Question 2/1 (copy to ITU-R Coordination Committee for Vocabulary (CCV); Working Parties 4A, 4B and 4C; WP 5B and 5D; WP 6A for information) – Broadband access technologies, including IMT, for developing countries. What is the definition of Broadband? | [CCV/18](http://www.itu.int/md/R15-CCV-C-0018/en)[4A/212](http://www.itu.int/md/R15-WP4A-C-0212)[4B/56](http://www.itu.int/md/R15-WP4B-C-0056)[4C/127](http://www.itu.int/md/R15-WP4C-C-0127)[5B/196](http://www.itu.int/md/R15-WP5B-C-0196)[5D/395](http://www.itu.int/md/R15-WP5D-C-0395)[6A/179](http://www.itu.int/md/R15-WP6A-C-0179/en) | 77R2 |

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

| **Liaison statement to** | **Title/Subject** | **References** | **Source:5A/TEMP/** |
| --- | --- | --- | --- |
| **ITU-T SG 15** | Liaison statement on determination of Amendment 1 to Recommendation ITU-T G.9700 (2014) |  *See* [*section 5.1*](#_5.1_Reply_liaison) | 103 |
| **ITU-T SG20** | Reply liaison statement to ITU-T SG 20 on new ITU-T SG 20 | *See* [*section 5.2*](#_5.2_Reply_liaison) | 87 |
| **JCA-IOT and SC&C** | Reply liaison statement to ITU-T Joint Coordination Activity on Internet of Things (JCA-IOT) and smart cities and communities (SC&C)  | *See* [*section 5.3*](#_5.3_Reply_liaison) | 89R1 |

## 5.1 Liaison statement on determination of Amendment 1 to Recommendation ITU-T G.9700 (2014)

Working Party 5A thanks ITU-T Study Group 15 for its liaison statement in Document 5A/162. WP 5A notes that Amendment 1 to Recommendation ITU-T G.9700 adds a new 106 MHz profile that increases the maximum aggregate transmit power from +4 dBm to +8 dBm, whilst remaining within the currently specified limit PSD mask and that much of the increased transmit power will need to be applied below 30 MHz.

WP 5A also notes that Section 6.5 of ITU-T G.9700 requires that the FAST Transceiver Unit (FTU) shall be capable of being configured to notch one or more specific frequency bands in order to protect radiocommunication services; for example, the frequency bands allocated to the amateur service (referred to as ‘HAM bands’ in the SG15 liaison statement). Furthermore, ITU-T G.9700 requires that the FTU shall support at least sixteen arbitrary notches simultaneously.

WP 5A would like to inform ITU-T SG15 that the frequency bands for the amateur service in Table 1 of Appendix I to ITU-T G.9700 does not reflect the totality of allocated frequency bands to the amateur service in Article **5** of the Radio Regulations in the frequency range below 7 MHz i.e. 135.7-137.8 kHz, 472-479 kHz and 5 351.5-5 366.5 kHz are not included. Twelve frequency bands allocated to the amateur service up to 212 MHz are currently listed in Annex I of ITU-T G.9700. Adding the three additional bands below 7 MHz would bring the total to fifteen leaving only one notch for a frequency band allocated to another service.

Therefore, WP 5A would be grateful if a future revision of ITU-T G.9700 would amend Table 1 of Appendix 1 to include the bands at 137 kHz, 472 kHz and 5 MHz and in addition WP 5A would also suggest that perhaps more than sixteen arbitrary simultaneous notches are now required.

WP 5A seeks to maintain cooperation with ITU-T SG15 and hopes to be advised of future possible changes at the earliest time.

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| **Status:** For information |  |
| **Contact:** Dale Hughes | **E-mail:** dalevk1dsh@gmail.com  |

## 5.2 Reply liaison statement to ITU-T SG 20 on new ITU-T SG 20

ITU-R Working Party 5A (WP 5A) would like to thank ITU-T SG 20 for its liaison statement on “New ITU-T SG 20” and the updates of its activities related to Internet of Things (IoT). WP 5A noted ITU-T SG 20’s work on the requirements and use cases for IoT and IoT functional architecture including signalling requirements and protocols, as included in draft Recommendation “Architecture of the Internet of Things based on NGNe” (Y.NGNe-IoT-arch) and draft output text for ITU-T Y.IoT-DE-RA "Reference architecture for IoT device capability exposure".

WP 5A would like to provide information regarding activities under its purview related to IoT. Wide-area sensor and/or actuator network (WASN) systems support machine-to-machine communications to a large number of sensors and/or actuators.

– Recommendation [ITU-R M.2002](http://www.itu.int/rec/R-REC-M.2002/en) provides the objectives, system characteristics, functional requirements, service applications and fundamental network functionalities for mobile wireless access systems (WAS) providing communications to a large number of ubiquitous sensors and/or actuators scattered over wide areas in the land mobile service. The key objective of wide area sensor and/or actuator network (WASN) systems is to support machine-to-machine service applications irrespective of machine location.

– Report [ITU-R M.2224](http://www.itu.int/pub/R-REP-M.2224) provides detailed information for system design policy, the wireless applications and examples of wide area sensors and/or actuators network (WASN) systems for information sharing.

In addition to the above, WP 5A may initiate additional work on Machine Type Communications by systems under [the purview of WP 5A](https://www.itu.int/oth/R0A06000001/en), at its May 2017 meeting.

WP 5A kindly requests that it be kept informed of any activities related to SG 20’s work on IoT. WP 5A intends to continue to provide relevant information on activities under its purview to SG 20.

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| **Status:** For information |  |
| **Contact:** Dr. Hitoshi Yoshino | **E-mail:** hitoshi.yoshino@g.softbank.co.jp |

## 5.3 Reply liaison statement to ITU-T Joint Coordination Activity on Internet of Things (JCA-IOT) and smart cities and communities (SC&C)

ITU-R Working Party 5A (WP 5A) would like to thank ITU-T JCA-IOT and SC&C for its liaison statement. The ITU-R has been active in the development of various platforms, applications, and technologies that are, and will continue to be, implemented under a number of radiocommunication services.” In October 2015, the Radiocommunication Assembly approved Resolution [ITU-R 66](https://www.itu.int/pub/R-RES-R.66-2015), *Studies related to wireless systems and applications for the development of the Internet of Things*, which *resolves* “to conduct studies on the technical and operational aspects of radio networks and systems for IoT”.

WP 5A would like to provide information regarding activities under its purview related to IoT. Wide-area sensor and/or actuator network (WASN) systems support machine-to-machine communications to a large number of sensors and/or actuators.

– Recommendation [ITU-R M.2002](http://www.itu.int/rec/R-REC-M.2002/en) provides the objectives, system characteristics, functional requirements, service applications and fundamental network functionalities for mobile wireless access systems (WAS) providing communications to a large number of ubiquitous sensors and/or actuators scattered over wide areas in the land mobile service. The key objective of wide area sensor and/or actuator network (WASN) systems is to support machine-to-machine service applications irrespective of machine location.

– Report [ITU-R M.2224](http://www.itu.int/pub/R-REP-M.2224) provides detailed information for system design policy,
the wireless applications and examples of wide area sensors and/or actuators network (WASN) systems for information sharing.

WP 5A kindly requests that it be kept informed of any activities related to JCA-IOT and SC&C work on IoT. WP 5A intends to continue to provide relevant information on activities under its purview to JCA-IOT & SCC.

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| --- | --- |
| **Status:** For information |  |
| **Contact:** Dr. Hitoshi Yoshino | **Email:** hitoshi.yoshino@g.softbank.co.jp |

# 6 Liaison statements from Working Party 5A to external organizations[[2]](#footnote-2)

| **Liaison to** | **Title/Subject** | **References** | **Source:5A/TEMP/** |
| --- | --- | --- | --- |
| **MGWSExternal Organizations** | Liaison statement to MGWS external organizations – Request for input for a revision of Recommendation ITU-R M.2003 and Report ITU-R M.2227 – Multiple Gigabit Wireless Systems | *See* [*section 6.1*](#s61) | 94R1 |
| **BWA, PPDR and ITS External Organizations** | Liaison statement to BWA, PPDR and ITS external organizations – Technical and operational characteristics of digital land mobile radios for specific use | *See* [*section 6.2*](#s62) | 96R1 |
| **RailExternal Organizations** | Liaison statement to Rail external organizations – Technical and operational characteristics and implementation of railway radiocommunication systems between train and trackside (RSTT) associated with work on WRC-19 agenda item 1.11 | *See* [*section 6.3*](#_6.3_Liaison_statement) | 122R1 |
| **BWAExternal Organizations** | Liaison statement to BWA external organizations – Operational requirements and technical characteristics of systems in the land mobile service excluding IMT in the frequency band 51.4-52.4 GHz and adjacent or nearby bands  | [*See section 6.4*](#_6.4_Liaison_statement) | 129R1 |
| **BWAExternal Organizations** | Liaison statement to BWA external organizations (copy for information to Working Parties 1A, 3J, 3K, 3M, 5C, 7C and 7D) – Preliminary information on land mobile service applications associated with work on WRC-19 agenda item 1.15 | [1A/134](http://www.itu.int/md/R15-WP1A-C-0134)[3J/75](http://www.itu.int/md/R15-WP3J-C-0075)[3K/88](http://www.itu.int/md/R15-WP3K-C-0088)[3M/139](http://www.itu.int/md/R15-WP3M-C-0139)[5C/176](http://www.itu.int/md/R15-WP5C-C-0176)[7C/98](http://www.itu.int/md/R15-WP7C-C-0098)[7D/63](http://www.itu.int/md/R15-WP7D-C-0063) | 68R1 |
| **BWA and WASN External Organizations** | Liaison statement to BWA and WASN external organizations (copy for information to Working Party 5D) – Request for Information on Machine Type Communications (MTC) in the land mobile service | [5D/411](http://www.itu.int/md/R15-WP5D-C-0411) | 79R1 |
| **3GPP**CCSA | Liaison statement to 3GPP (copy for information to CCSA) – Intelligent Transport Systems (ITS) | *See* [*section 6.5*](#_6.5_Liaison_statement) | 131R1 |

## 6.1 Liaison statement to external organizations[[3]](#footnote-3) – Request for input for a revision of Recommendation ITU-R M.2003 and Report ITU-R M.2227 – Multiple Gigabit Wireless Systems

At its November 2016 meeting, ITU-R Working Party 5A initiated work on a revision of [Recommendation ITU-R M.2003](http://www.itu.int/rec/R-REC-M.2003-1-201501-I/en), which provides the general characteristics and radio interface standards for Multiple Gigabit Wireless Systems in frequencies around 60 GHz, and its companion [Report ITU-R M.2227](http://www.itu.int/pub/R-REP-M.2227).

ITU-R Working Party 5A kindly invites external organizations to provide updated and/or new material for the revisions of Recommendation ITU‑R M.2003 and Report ITU-R M.2227 as appropriate. The current working documents are attached.

The next meeting of Working Party 5A is scheduled for 22 May – 1 June 2017. The deadline for contributions is 16:00 hours UTC on Monday, 15 May 2017; contributions received after the deadline will be considered at the following meeting of WP 5A.

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| **Status:** For action. |
| **Contact:** Sergio Buonomo  | **E-mail:** sergio.buonomo@itu.int |

**Attachments:** Working document towards a preliminary draft revision of Recommendation ITU‑R M.2003-1 “Multiple gigabit wireless systems in frequencies around 60 GHz” – [Annex 17 to Document 5A/298](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0298!N17!MSW-E)

Working document towards a preliminary draft revision of Report ITU**-**R M.2227‑1 “Multiple Gigabit Wireless Systems in frequencies around 60 GHz” - [Annex 18 to Document 5A/298](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0298!N18!MSW-E)

## 6.2 Liaison statement to external organizations[[4]](#footnote-4) – Technical and operational characteristics of digital land mobile radios for specific use

WP 5A is developing a working document towards a preliminary draft new Report ITU-R M.[DPLMR] which deals with the technical and operational characteristics of digital private land mobile radios systems that provide capabilities required for specific user groups/applications, such as governmental, mining, health, hospitality, transportations, disaster relief, industrial, manufacturing, etc. Issues relating to PLMR for dispatch applications are covered in Report ITU-R M.2014.

Based on the above, the working document for this preliminary draft new Report ITU-R M.[DPLMR] is found in Attachment 1; the work plan is reported in the [Annex](#annex) to this document.

External organizations are invited to contribute material for development of this new Report.

The next meeting of ITU-R Working Party 5A is scheduled for 22 May – 1 June 2017 and the deadline for submission of contributions is 16:00 hours UTC, 15 May 2017.

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 May 2017.

**Attachment 1:** [Annex 15 to Doc. 5A/298](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0298!N15!MSW-E) – *Working document towards a preliminary draft new Report ITU-R M.[DPLMR] - Digital private land mobile radios systems*

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| **Status:** For action |  |
| **Contact:** M. Sergio Buonomo | **E-mail:** sergio.buonomo@itu.int |

ANNEX

WORKPLAN FOR A PRELIMINARY DRAFT NEW REPORT ITU-R M.[DPLMR]

(Source: Document 5A/TEMP/99(Rev.1))

|  |  |
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| **Title** | Workplan for a preliminary draft new Report “Digital Private Land Mobile Radios” |
| **Identifier** | DPLMR |
| **WP 5A Lead Group** | Working Group 2: Systems and standards |
| **DG Chair** | Mr. David Tejeda, Mexico **E-mail:** david.tejeda@ift.org.mx  |
| **Focus for scope and work1** | This Report deals with the technical and operational characteristics of digital private land mobile radios systems that provide capabilities required for specific user groups/applications, such as governmental, mining, health, hospitality, transportations, disaster relief , industrial, manufacturing, etc.Issues relating to PPDR are covered in Report ITU-R M.2009, Report ITU-R M.2377 and Recommendation ITU-R M.2015.Issues relating to PLMR for dispatch applications are covered in Report ITU-R M.2014. |
| **Related documents** | Question ITU-R 37-6/5Report ITU-R M.2014[Others] |
| **Milestones** | **16th Meeting of WP 5A (May, 2016)**1. Discuss and develop details of scope of work and work plan2. Outline the structure of working document3. Develop liaison statements as appropriate **17th Meeting of WP 5A (November, 2016)**1. Consider the received input contributions2. Continue to develop the working document 3. Review the work plan if needed4. If necessary, develop liaison statements as appropriate**18th Meeting of WP 5A (May, 2017)**1. Consider the received input contributions2. Review and discuss received contributions 3. Continue to develop a working document4. Review the work plan if needed5. Consider the potential need for a questionnaire and approve if agreed6. If necessary, develop liaison statements as appropriate**19th Meeting of WP 5A (November, 2017)**1. Consider the received input contributions2. Review and discuss received contributions3. Stabilize the contents of working document4. Elevate the working document to a PDNR **20th Meeting of WP 5A (May, 2018)**1. Consider the received input contributions2. Finalize the Report and submit to SG 5 for approval |

## 6.3 Liaison statement to external organizations[[5]](#footnote-5) – Technical and operational characteristics and implementation of railway radiocommunication systems between train and trackside (RSTT) associated with work on WRC-19 agenda item 1.11

ITU-R Working Party 5A thanks APT for their liaison statement in Document 5A/167 and 3GPP TSG RAN for their liaison statement in Document 5A/187. At its November meeting, the working document towards a preliminary draft new Report ITU-R "Working document towards a preliminary draft new report of technical and operational characteristics, implementation and spectrum needs of RSTT" was further improved:

– 4 main categories were raised to distinguish different purposes/functions of RSTT;

– Technologies, 5 generic deployment scenarios, and the generic architecture of RSTT were raised;

– 26 responses to the ‘questionnaire on the usage of railway radiocommunication systems’ were summarized;

– The usage of RSTT in 4 administrations were added or modified and attached to the Annexes.

Working Party 5A kindly invites the External Organizations to comment on the above mentioned working document. The deadline for contributions to the next WP 5A meeting is 1600 hours UTC, 15 May 2017.

**Attachment:** [Working document towards a preliminary draft new Report ITU-R](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0298!N16!MSW-E) "Working document towards a preliminary draft new report of technical and operational characteristics, implementation and spectrum needs of RSTT"

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| **Status:** For action |  |
| **Contact:** Sergio Buonomo Study Group 5 Counselor | **E-mail:** sergio.buonomo@itu.int |

## 6.4 Liaison statement to BWA external organizations [[6]](#footnote-6) – Operational requirements and technical characteristics of systems in the land mobile service excluding IMT in the frequency band 51.4-52.4 GHz and adjacent or nearby bands

Working Party 5A is gathering system characteristics and protection requirements in the land mobile service excluding IMT in the 51.4-52.4 GHz band, and adjacent or nearby bands.

Currently there are no ITU-R Recommendations or Reports that include such characteristics for the frequency ranges of interest.

WP 5A kindly invites its BWA external organizations to provide characteristics of relevant BWA systems and standards to assist in the studies.

The next meeting of Working Party 5A is scheduled for 22 May – 1 June 2017. The strict deadline for contributions is 16:00 hours UTC on Monday, 15 May 2017.

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| **Status:** For action |
| **Contact:** Sergio Buonomo  | **E-mail:** sergio.buonomo@itu.int  |

## 6.5 Liaison statement to 3GPP (copy for information to CCSA) – Intelligent Transport Systems (ITS)

During its 17th meeting, one input contribution was received (Document 5A/232) by WP 5A regarding the finalization of an LTE-based V2V specification and that 3GPP is continuing development to further support the use of LTE in V2V/V2X applications.

Within the framework of ITU-R WP 5A studies on ITS (including WRC-19 agenda item 1.12) are conducted and as a result of the review of the information received, WP 5A has the following questions:

1) Can 3GPP provide its latest Technical Specification for its proposed ITS applications?

2) What is the status of the work items within 3GPP related to LTE-based V2X and whether 3GPP could provide WP 5A with the intended timelines regarding the work item?

3) Please, indicate the specific ITS usages and their related communications requirements, which were considered by 3GPP in order to develop 3GPP LTE-based V2V and LTE‑based V2X technical capabilities.

In addition, WP 5A kindly asks 3GPP to confirm, revise or update information related to LTE-based V2X. Specifically please take note of the information in sections 5.1.1, 5.1.2, 7.1, 7.2, 7.3 and 7.4 of the attachment (Annex 30 Document 5A/298).

WP 5A is looking forward to any information on the above for May 2017 meeting (contribution deadline: 16:00 hours UTC, 15 May 2017).

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| **Status:** For action |  |
| **Contact:** Sergio BUONOMO Study Group 5 Counselor | **E-mail:** sergio.buonomo@itu.int |

**Attachment:** [Annex 30 to Document 5A/298](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0298!N30!MSW-E) (ITS Usage Report)

1. Bold font indicates the primary recipients; “copy to” the others. [↑](#footnote-ref-1)
2. See section 4 in [Annex 1](http://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0298!N01!MSW-E) to [Doc. 5A/298](http://www.itu.int/md/R15-WP5A-C-0298/en). [↑](#footnote-ref-2)
3. ARIB, ETSI, ETSI, IEEE, TIA, TTA, WGA, AWG, CCSA, ECMA International, and
ETSI TC BRAN. [↑](#footnote-ref-3)
4. 3GPP, 3GPP RAN, 3GPP2, 4G Americas, 5G Automobile Association, 79 GHz Project, APCO, APT Preparatory Group (APG) , ARIB, ATIS, AWG, BBF, CCSA, CDG, ETSI, ETSI ERM-TG37, ETSI ERM-TG41, ETSI ERM-TGDMR, ETSI ERM-TGSRR, ETSI SC EMTEL, ETSI TC BRAN, ETSI TC DECT, ETSI TC ERM, ETSI TC ERM TG 37, ETSI TC ITS, ETSI TC TCCE, GSA, GSMA, iBurst Association, IEC TC 65, IEEE, IETF ITS, ISO TC 204, OASIS, TIA, TIA TR-45, TIA TR-45.3, TIA TR-45.5, TIA TR-8, TIA TR-8.8, TTA, TTC, UMTS Forum, WGA, Wi-Fi Alliance, WiMAX Forum, and XGP Forum. [↑](#footnote-ref-4)
5. IEEE, TTA, 3GPP, 3GPP, ETSI, ETSI, 3GPP RAN, AAR, APT, ASMG, ATU, CEPT ECC, CITEL, ERA, ETSI TC RT, IEC TC 9, ISO TC 269, RAC, RCC and UIC. [↑](#footnote-ref-5)
6. 3GPP, 3GPP RAN, 3GPP2, 4G Americas, ARIB, ATIS, AWG, BBF, CCSA, CDG, ETSI, ETSI ERM-TG41, ETSI TC BRAN, ETSI TC DECT, ETSI TC ERM, GSA, GSMA, iBurst Association, IEC TC 65, IEEE, TIA, TIA TR-45, TIA TR-45.3, TIA TR-45.5, TTA, TTC, UMTS Forum, WGA, Wi-Fi Alliance, WiMAX Forum, and XGP Forum. [↑](#footnote-ref-6)