|  |  |  |  |
| --- | --- | --- | --- |
|  | **Radiocommunication Study Groups** | |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** | |  | |
|  | |  | |
|  | | **Annex 2 to Document 5A/114-E** | |
| **2 June 2016** | |
| **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 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-0114!N01!MSW-E)).

Working Party 5A approved an update to the “[Guide to the use of ITU-R texts related to the land mobile service including wireless access in the fixed service](http://www.itu.int/oth/R0A06000001/en)” for posting on the WP 5A webpage: <http://www.itu.int/ITU-R/go/rwp5a> :

At its sixteenth meeting Working Party 5A approved 26 liaison statements to other groups. See sections [3](#s3), [4](#s4), [5](#s5) and [6](#s6) below.

WP 5A developed two notes to the Director as shown in section 7 below.

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

There were no proposals for Study Group 5 out of this meeting.

# 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/** |
| --- | --- | --- | --- |
| **BWA EOs**  **WP 1A**  **WP 5D** | Liaison statement to External Organizations (copy for information to Working Parties 1A and 5D) - Technical and operational characteristics of the land mobile service applications and their spectrum needs associated with work on WRC-19 agenda item 1.15 in the frequency range 275‑450 GHz | [1A/39](http://www.itu.int/md/R15-WP1A-C-0039)  [5D/116](http://www.itu.int/md/R15-WP5D-C-0116) | 1R1 |
| **WP 7C**  WP 5B  WP 6A | *Source: Working Parties 5A and 5C*  Liaison statement to Working Party 7C (copy to Working Parties 5B and 6A for information) - Technical and operational characteristics for systems operating within the 40-50 MHz frequency band | [7C/44](http://www.itu.int/md/R15-WP7C-C-0044)  [5B/72](http://www.itu.int/md/R15-WP5B-C-0072)  [6A/61](http://www.itu.int/md/R15-WP6A-C-0061) | 4 |
| **WP 1A**  WP 5D  WP 6A | *Source: Working Parties 5A, 5B and 5C*  Liaison statement to Working Party 1A (copied to Working Parties 5D and 6A for information) - Liaison with CENELEC on PLT, EMI and WPT | [1A/29](http://www.itu.int/md/R15-WP1A-C-0029)  [5D/108](http://www.itu.int/md/R15-WP5D-C-0108)  [6A/59](http://www.itu.int/md/R15-WP6A-C-0059) | 5 |
| **WP 1A**  WP 1B  WP 5B  WP 5C  WP 6A  WP 7A  WP 7D | Reply liaison statement to Working Party 1A (copy for information to Working Parties 1B, 5B 5C, 6A, 7A and 7D) - Radio frequency ranges for wireless power transmission using technologies other than radio frequency beam | [1A/42](http://www.itu.int/md/R15-WP1A-C-0042)  [1B/32](http://www.itu.int/md/R15-WP1B-C-0032)  [5B/77](http://www.itu.int/md/R15-WP5B-C-0077)  [5C/64](http://www.itu.int/md/R15-WP5C-C-0064)  [6A/66](http://www.itu.int/md/R15-WP6A-C-0066)  [7A/7](http://www.itu.int/md/R15-WP7A-C-0007)  [7D/26](http://www.itu.int/md/R15-WP7D-C-0026) | 6 |
| **WP 6A**  WP 1B  WP 3K  WP 3M  WP 5B  WP 5C | Liaison statement to Working Party 6A (copy to Working Parties 1B, 5B, 5C, 3K and 3M) - WRC-19 agenda item 1.1 | [6A/67](http://www.itu.int/md/R15-WP6A-C-0067)  [1B/33](http://www.itu.int/md/R15-WP1B-C-0033)  [3K/14](http://www.itu.int/md/R15-WP3K-C-0014)  [3M/31](http://www.itu.int/md/R15-WP3M-C-0031)  [5B/78](http://www.itu.int/md/R15-WP5B-C-0078)  [5C/65](http://www.itu.int/md/R15-WP5C-C-0065) | 7 |
| **WP 1A**  **WP 1B**  **WP 4A**  **WP 5B**  **WP 5C**  **WP 5D** | Liaison statement to Working Parties 1A, 1B, 4A, 5B, 5C and 5D - Study of sharing schemes in the land mobile service on the basis of geographical use, frequencies, services, new technologies and applications | [1A/43](http://www.itu.int/md/R15-WP1A-C-0043)  [1B/35](http://www.itu.int/md/R15-WP1B-C-0035)  [4A/71](http://www.itu.int/md/R15-WP4A-C-0071)  [5B/79](http://www.itu.int/md/R15-WP5B-C-0079)  [5C/66](http://www.itu.int/md/R15-WP5C-C-0066)  [5D/119](http://www.itu.int/md/R15-WP5D-C-0119) | 9R1 |
| **WP 7B**  WP 3M  WP 4C  WP 5B  WP 5C  WP 5D  WP 6A | Liaison statement to Working Party 7B (copied for information to Working Parties 3M, 4C, 5B, 5C, 5D and 6A) - Technical characteristics for WRC-19 agenda item 1.3 | [7B/47](http://www.itu.int/md/R15-WP7B-C-0047)  [3M/32](http://www.itu.int/md/R15-WP3M-C-0032)  [4C/54](http://www.itu.int/md/R15-WP4C-C-0054)  [5B/80](http://www.itu.int/md/R15-WP5B-C-0080)  [5C/67](http://www.itu.int/md/R15-WP5C-C-0067)  [5D/120](http://www.itu.int/md/R15-WP5D-C-0120)  [6A/68](http://www.itu.int/md/R15-WP6A-C-0068) | 10R1 |
| **WP 7B**  WP 1A  WP 3M  WP 4A  WP 4B  WP 4C  WP 5B  WP 5C  WP 5D  WP 6A | Reply liaison statement to Working Party 7B (copy for information to Working Parties 1A, 3M 4A, 4B, 4C, 5B, 5C, 5D and 6A) - WRC-19 agenda item 1.7 | [7B/48](http://www.itu.int/md/R15-WP7B-C-0048)  [1A/44](http://www.itu.int/md/R15-WP1A-C-0044)  [3M/33](http://www.itu.int/md/R15-WP3M-C-0033)  [4A/72](http://www.itu.int/md/R15-WP4A-C-0072)  [4B/25](http://www.itu.int/md/R15-WP4B-C-0025)  [4C/55](http://www.itu.int/md/R15-WP4C-C-0055)  [5B/81](http://www.itu.int/md/R15-WP5B-C-0081)  [5C/68](http://www.itu.int/md/R15-WP5C-C-0068)  [5D/122](http://www.itu.int/md/R15-WP5C-C-0122)  [6A/69](http://www.itu.int/md/R15-WP6A-C-0069) | 11R1 |
| **WP 5D** | Liaison statement to Working Party 5D on the development of a working document towards a preliminary draft new Report ITU-R M.[PPDR SPECTRUM] and consequential impact on Report ITU-R M.2377 - Spectrum calculations and requirements for Public Protection and Disaster Relief (PPDR) | [5D/123](http://www.itu.int/md/R15-WP5D-C-0123) | 14 |
| **CCV**  **SCV** | Reply liaison statement to Coordination Committee for Vocabulary (CCV) and Standardization Committee for Vocabulary (SCV) - PPDR terms and definitions | [CCV/9](http://www.itu.int/md/R15-CCV-C-0009) | 15 |
| **WP 4A**  WP 5B  WP 5C  WP 5D | Liaison statement to Working Party 4A (copied to Working Parties 5B, 5C and 5D for information) - Working document towards a preliminary draft new Recommendation ITU-R S.[INTERF.AREA] | [4A/73](http://www.itu.int/md/R15-WP4A-C-0073)  [5B/82](http://www.itu.int/md/R15-WP5B-C-0082)  [5C/69](http://www.itu.int/md/R15-WP5C-C-0069)  [5D/124](http://www.itu.int/md/R15-WP5D-C-0124) | 16R2 |
| **ITU-T SG20**  WP 5D | Reply liaison statement to ITU-T SG 20 (copy for information to Working Party 5D) | [5D/125](http://www.itu.int/md/R15-WP5D-C-0125) | 19 |
| **ITU-T SG 17**  WP 4A  WP 4B  WP 4C  WP 5D | Liaison response to ITU-T SG 17 (copy to Working Parties 4A, 4B, 4C and 5D) - Network security requirements for Public Protection and Disaster Relief and Emergency Communication | [4A/74](http://www.itu.int/md/R15-WP4A-C-0074)  [4B/26](http://www.itu.int/md/R15-WP4B-C-0026)  [4C/56](http://www.itu.int/md/R15-WP4C-C-0056)  [5D/126](http://www.itu.int/md/R15-WP5D-C-0126) | 20 |
| **ITU-T SG 5**  **WP 5D**  **WP 6A**  WP 3L  WP 1B  WP 1C  ITU-D SG 2 | *Source: Working Parties 5A, 5B and 5C*  Reply liaison statement to ITU-T Study Group 5, ITU-R Working Parties 5D and 6A (copy for information to Working Parties 3L, 1B, 1C and ITU-D Study Group 2) - Human exposure to electromagnetic fields (EMFS) | [5D/112](http://www.itu.int/md/R15-WP5D-C-0112)  [6A/62](http://www.itu.int/md/R15-WP6A-C-0062)  [3L/9](http://www.itu.int/md/R15-WP3L-C-0009)  [1B/25](http://www.itu.int/md/R15-WP1B-C-0025)  [1C/15](http://www.itu.int/md/R15-WP1C-C-0015) | 37  34 (WP 5B) |
| **WP 6B**  WP 4A  WP 4B  WP 5B  WP 5C  WP 5D  ITU-T SG 9  ITU-T SG 16 | Reply liaison statement to Working Party 6B on Global Platform for the Broadcasting Service (copy for information to ITU-R WPs 4A, 4B and 5B, 5C, 5D, ITU-T SGs 9 and 16) | [6B/48](http://www.itu.int/md/R15-WP6B-C-0048)  [4A/75](http://www.itu.int/md/R15-WP4A-C-0075)  [4B/27](http://www.itu.int/md/R15-WP4B-C-0027)  [5B/83](http://www.itu.int/md/R15-WP5B-C-0083)  [5C/70](http://www.itu.int/md/R15-WP5C-C-0070)  [5D/127](http://www.itu.int/md/R15-WP5D-C-0127) | 40 |
| **CCV**  **SCV** | Liaison statement to CCV and SCV - Updating the integrated database of ITU terms and definitions: Definition of "wireless ad hoc network" and "wireless peer-to-peer network" | [CCV/10](http://www.itu.int/md/R15-CCV-C-0010) | 41 |
| **WP 3K** | Liaison statement to Working Party 3K - On the doppler effect in railway radiocommunication systems between high-speed trains and tracksides | [3K/15](http://www.itu.int/md/R15-WP3K-C-0015) | 46r1 |
| **WP 7C** | Reply liaison statement to Working Party 7C - Information pertaining to EESS (active) in the 5 GHz range to be considered under WRC-19 agenda item 1.16 | [7C/48](http://www.itu.int/md/R15-WP7C-C-0048) | 50 |
| **WP 4A**  **WP 4C**  **WP 5B**  **WP 5C**  WP 1B  WP 3J  WP 3K  WP 3M  WP 5D | Liaison statement to Working Parties 4A, 4C, 5B and 5C (copied for information to Working Parties 1B, 3J, 3K, 3M and 5D) - Request for technical characteristics relevant to the work under WRC-19 agenda item 1.16 | [4A/76](http://www.itu.int/md/R15-WP4A-C-0076)  [4C/57](http://www.itu.int/md/R15-WP4C-C-0057)  [5B/84](http://www.itu.int/md/R15-WP5B-C-0084)  [5C/71](http://www.itu.int/md/R15-WP5C-C-0071)  [1B/38](http://www.itu.int/md/R15-WP1B-C-0038)  [3J/10](http://www.itu.int/md/R15-WP3J-C-0010)  [3K/16](http://www.itu.int/md/R15-WP3k-C-0016)  [3M/34](http://www.itu.int/md/R15-WP3M-C-0034)  [5D/128](http://www.itu.int/md/R15-WP5D-C-0128) | 55R1 |

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

| **Liaison statement to** | **Title/Subject** | **Document number** | **Source: 5A/TEMP/** |
| --- | --- | --- | --- |
| **ITU-T SG 5**  **WP 5D**  **WP 6A**  WP 3L  WP 1B  WP 1C  ITU-D SG 2 | *Source: Working Parties 5A, 5B and 5C*  Reply liaison statement to ITU-T Study Group 5, ITU‑R Working Parties 5D and 6A (copy for information to Working Parties 3L, 1B, 1C and ITU-D Study Group 2) - Human exposure to electromagnetic fields (EMFS) | [5D/112](http://www.itu.int/md/R15-WP5D-C-0112)  [6A/62](http://www.itu.int/md/R15-WP6A-C-0062)  [3L/9](http://www.itu.int/md/R15-WP3L-C-0009)  [1B/25](http://www.itu.int/md/R15-WP1B-C-0025)  [1C/15](http://www.itu.int/md/R15-WP1C-C-0015) | 37  34 (WP 5B) |

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

| **Liaison statement to** | | **Title/Subject** | **References** | **Source: 5A/TEMP/** |
| --- | --- | --- | --- | --- |
| **ITU-T CITS** | Reply liaison statement to collaboration on ITS communication standards (CITS) | *See* [*section 5.1*](#s51) | 25R1 |
| **ITU-T JCA-AHF** | Liaison Statement to JCA-AHF on Resolution ITU‑R 67 “Telecommunication/ICT accessibility for persons with disabilities and persons with specific needs” | *See* [*section 5.2*](#s52) | 8 |
| **ITU-T SG 5**  **WP 5D**  **WP 6A**  WP 3L  WP 1B  WP 1C  ITU-D SG 2 | *Source: Working Parties 5A, 5B and 5C*  Reply liaison statement to ITU-T Study Group 5, ITU-R Working Parties 5D and 6A (copy for information to Working Parties 3L, 1B, 1C and ITU-D Study Group 2) - Human exposure to electromagnetic fields (EMFS) | [5D/112](http://www.itu.int/md/R15-WP5D-C-0112)  [6A/62](http://www.itu.int/md/R15-WP6A-C-0062)  [3L/9](http://www.itu.int/md/R15-WP3L-C-0009)  [1B/25](http://www.itu.int/md/R15-WP1B-C-0025)  [1C/15](http://www.itu.int/md/R15-WP1C-C-0015) | 37  34 (WP 5B) |
| **WP 6B**  WP 4A  WP 4B  WP 5B  WP 5C  WP 5D  ITU-T SG 9  ITU-T SG 16 | Reply liaison statement to Working Party 6B on Global Platform for the Broadcasting Service (copy for information to ITU-R WPs 4A, 4B and 5B, 5C, 5D, ITU-T SGs 9 and 16) | [6B/48](http://www.itu.int/md/R15-WP6B-C-0048)  [4A/75](http://www.itu.int/md/R15-WP4A-C-0075)  [4B/27](http://www.itu.int/md/R15-WP4B-C-0027)  [5B/83](http://www.itu.int/md/R15-WP5B-C-0083)  [5C/70](http://www.itu.int/md/R15-WP5C-C-0070)  [5D/127](http://www.itu.int/md/R15-WP5D-C-0127) | 40 |
| **ITU-T SG 15** | Reply liaison statement to ITU-T Study Group 15 on the latest versions of the Access Network Transport (ANT), Smart Grid, and Home Network Transport (HNT) standards overviews and work plans | *See* [*section 5.3*](#s53) | 56 |
| **ITU-T SG 17**  WP 4A  WP 4B  WP 4C  WP 5D | Liaison response to ITU-T SG 17 (copy to Working Parties 4A, 4B, 4C and 5D) - Network security requirements for Public Protection and Disaster Relief and Emergency Communication | [4A/74](http://www.itu.int/md/R15-WP4A-C-0074)  [4B/26](http://www.itu.int/md/R15-WP4B-C-0026)  [4C/56](http://www.itu.int/md/R15-WP4C-C-0056)  [5D/126](http://www.itu.int/md/R15-WP5D-C-0126) | 20 |
| **ITU-T SG20**  WP 5D | Reply liaison statement to ITU-T SG 20 (copy for information to Working Party 5D) | [5D/125](http://www.itu.int/md/R15-WP5D-C-0125) | 19 |

## 5.1 Reply liaison statement to collaboration on ITS communication standards (CITS)

Working Party 5A (WP 5A) would like to thank Collaboration on ITS Communication Standards (CITS) for its liaison statement (Document [5A/40](http://www.itu.int/md/R15-WP5A-C-0040/en)) requesting information regarding the work on WRC-19 agenda item 1.12.

In reviewing the liaison statement (Document [5A/40](http://www.itu.int/md/R15-WP5A-C-0040/en)), WP 5A suggests to add [Report ITU-R M.2322](http://www.itu.int/pub/R-REP-M.2322) “Systems characteristics and compatibility of automotive radars operating in the frequency band 77.5-78 GHz for sharing studies” to the spread sheet provided.

For information, WP 5A attaches the workplan for the WRC-19 agenda item 1.12 to this liaison statement.

WP 5A can provide further information regarding the work under WRC-19 agenda item 1.12 as requested from its next meeting (7-18 November 2016).

|  |  |
| --- | --- |
| **Status:** For information |  |
| **Contact:** Satoshi (Sam) Oyama | **E-mail:** [s-oyama@](mailto:s-oyama@)arib.or.jp |

**Attachment:** [Annex 9](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0114!N09!MSW-E) to Document [5A/114](http://www.itu.int/md/R15-WP5A-C-0114/en)

## 5.2 Liaison statement to JCA-AHF on Resolution ITU-R 67 “Telecommunication/ICT accessibility for persons with disabilities and persons with specific needs”

Working Party 5A wishes to inform the JCA-AHF that during its May meeting the implications and impact of [Resolution ITU-R 67](http://www.itu.int/pub/R-RES-R.67) on the work of Working Party 5A were discussed at length and members will consider how the objectives of the Resolution can be progressed. It will be further discussed at the November Meeting of Working Party 5A.

|  |  |
| --- | --- |
| **Status**: For information |  |
| **Contact:** Brian Copsey | **E-mail:** [brian.copsey@ties.itu.int](mailto:brian.copsey@ties.itu.int) |

## 5.3 Reply liaison statement to ITU-T Study Group 15 on the latest versions of the Access Network Transport (ANT), Smart Grid, and Home Network Transport (HNT) standards overviews and work plans

Working Party 5A (WP 5A) thanks ITU-T Study Group 15 for providing the latest versions of the Access Network Transport (ANT), Smart Grid, and Home Network Transport (HNT) standards overviews and work plans (Documents [5A/17](http://www.itu.int/md/R15-WP5A-C-0017/en), [5A/18](http://www.itu.int/md/R15-WP5A-C-0018/en) and [5A/19](http://www.itu.int/md/R15-WP5A-C-0019/en)).

WP 5A is conducting work on radio local area networks (RLANs) and Multiple Gigabit Wireless Systems (MGWS) under [Question ITU-R 212-4/5](http://www.itu.int/pub/R-QUE-SG05.212-4-2012). RLANs/MGWS could be used to implement a home network. For a description of this work, you may wish to refer to:

* section 8.2 of the [Guide to the use of ITU-R texts relating to the land mobile service, including wireless access in the fixed service](http://www.itu.int/oth/R0A06000001/en), and in particular [Recommendation ITU-R M.1450](http://www.itu.int/rec/recommendation.asp?type=folders&lang=e&parent=R-REC-M.1450)-5, which recommends characteristics of broadband radio local area networks,
* section 8.4 of the [Guide to the use of ITU-R texts relating to the land mobile service, including wireless access in the fixed service](http://www.itu.int/oth/R0A06000001/en), and in particular [Recommendation ITU-R M.2003-1](http://www.itu.int/rec/R-REC-M.2003/en), which provides general characteristics and radio interface standards for MGWS in frequencies around 60 GHz.

Recommendation ITU-R M.1450-5 is already included in the ANTS Standards Overview, however Recommendation ITU-R M.2003-1 is not yet included; therefore WP 5A provides suggested updates, shown with track changes in the attachment document.

WP 5A would like to continue being kept informed of the coordination activities by ITU-T Study Group 15.



**Contact:** Gabrielle Owen **E-mail:** [gabrielle.owen@agentschaptelecom.nl](mailto:gabrielle.owen@agentschaptelecom.nl)

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

| **Liaison to** | **Title/Subject** | **References** | **Source: 5A/TEMP/** |
| --- | --- | --- | --- |
| **BWA  External Organizations**  **WP 1A**  **WP 5D** | Liaison statement to External Organizations (copy for information to Working Parties 1A and 5D) - Technical and operational characteristics of the land mobile service applications and their spectrum needs associated with work on WRC-19 agenda item 1.15 in the frequency range 275-450 GHz | [1A/39](http://www.itu.int/md/R15-WP1A-C-0039)  [5D/116](http://www.itu.int/md/R15-WP5D-C-0116) | 1R1 |
| **BWA, PPDR and ITS External Organizations** | Liaison statement to External Organizations - Technical and operational characteristics of digital land mobile communication systems for specific applications | *See* [*section 6.1*](#s61) | 39 |
| **Rail External Organizations** | Liaison statement to External Organizations - Technical and operational characteristics and implementation of railway radiocommunication systems between train and trackside associated with work on WRC-19 agenda item 1.11 | *See* [*section 6.2*](#s62) | 45R1 |

## 6.1 Liaison statement to External Organizations[[3]](#footnote-3) - Technical and operational characteristics of digital land mobile communication systems for specific applications

At its meeting in May 2016, WP 5A has started development of a new Report under Question [ITU‑R 37-6/5](http://www.itu.int/pub/R-QUE-SG05.37) to deal with the technical and operational characteristics of digital systems that may provide capabilities required by specific user groups/applications, such as private mobile radio, public access mobile radio, utilities, e-Health, etc., including those dealing with specialized vertical markets such as governmental, mining, health, hospitality, manufacturing, etc.

Presently Report [ITU-R M.2014](http://www.itu.int/pub/R-REP-M.2014) only covers technical and operational characteristics for digital dispatch systems and also provides details of systems being introduced throughout the world while Recommendation [ITU-R M.478](http://www.itu.int/rec/R-REC-M.478/en) covers characteristics of equipment and principles governing the allocation of frequency channels for the analogue land mobile service. Many of these analogue systems are now being upgraded and replaced by more efficient digital systems. Therefore WP 5A has identified the need to develop a Report on the technical and operational characteristics of digital land mobile systems for specific users. WP 5A is also considering whether this report will also include the current material in Report ITU-R M.2014 which only covers digital trunk radio systems for dispatch traffic.

Work plan for this new Report is [attached](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0114!N03!MSW-E#att1)[[4]](#footnote-4).

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

The next meeting of ITU-R Working Party 5A is scheduled for 7-17 November 2016 and the deadline for submission of contributions is 1600 hours UTC, 31 October 2016.

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 November 2016.

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

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

Information and radiocommunication technologies in railway radiocommunication systems between train and trackside provide improved railway traffic control, passenger safety and improved security for train operations. International and regional standards and harmonized spectrum would facilitate worldwide deployment of railway radiocommunication systems between train and trackside and provide for economies of scale in railway transportation.

Agenda item 1.11 invites WRC-19 to take necessary actions, as appropriate, to facilitate global or regional harmonized frequency bands to support railway radiocommunication systems between train and trackside within existing mobile service allocations, in accordance with Resolution **236 (WRC-15**).

**Resolution 236 (WRC-15)**, entitled Railway radiocommunication systems between train and trackside, *resolves*:

*to invite the 2019 World Radiocommunication Conference* based on the results of ITU‑R studies, to take necessary actions, as appropriate, to facilitate global or regional harmonized frequency bands, to the extent possible, for the implementation of railway radiocommunication systems between train and trackside, within existing mobile‑service allocations;

*to invite ITU-R* to study the spectrum needs, technical and operational characteristics and implementation of railway radiocommunication systems between train and trackside.

As part of its initiation of work on WRC-19 agenda item 1.11, ITU-R WP 5A kindly invites the external organizations to provide information to the next WP 5A meeting on the technical and operational characteristics and implementation of railway radiocommunication systems between train and trackside. In particular, WP 5A seeks information limited to railway traffic control, passenger safety and security for train operations, as well as the implemented international and regional standards. 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 November 2016.

**Attachments:**

1 Work plan for preparation for WRC-19 agenda item 1.11 ([Annex 7](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0114!N07!MSW-E) to [Doc. 5A/114](http://www.itu.int/md/R15-WP5A-C-0114/en)).

2 Working document towards a preliminary draft new Report ITU-R [RAIL.RSTT] “Technical and operational characteristics, implementation and spectrum needs of railway radiocommunication systems between train and trackside” ([Annex 19](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0114!N19!MSW-E) to [Doc. 5A/114](http://www.itu.int/md/R15-WP5A-C-0114/en)).

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| **Status:** For action |  |
| **Deadline:** 16:00 hours UTC, 31 October 2016. |  |
| **Contact:** Sergio Buonomo  Study Group 5 Counselor | **E-mail:** [sergio.buonomo@itu.int](mailto:sergio.buonomo@itu.int) |

# 7 Notes to the Director, BR

## 7.1 Note to the Director of the Radiocommunication Bureau on agenda item 1.1 of WRC-19

WRC-19 agenda item 1.1 resolves to consider an allocation of the frequency band 50-54 MHz to the amateur service in Region 1, in accordance with Resolution **658 (WRC-15)**.

In order to assist WP 5A to perform the compatibility and sharing studies in the 50-54 MHz frequency band as specified in WRC-19 agenda item 1.1, you are kindly requested to consider any possible action that may indicate the actual use of the band by administrations.

## 7.2 Questionnaire on the use of railway radiocommunication systems



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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-0114!N01!MSW-E) to [Doc. 5A/114](http://www.itu.int/md/R15-WP5A-C-0114/en). [↑](#footnote-ref-2)
3. *BWA, PPDR and ITS External Organizations:* 3GPP, 3GPP RAN, 3GPP2, 4G Americas, 79 GHz Project, APCO, APG, ARIB, ATIS, AWG, BBF, CCSA, CDG, ETSI, ETSI ERM-TG37, ETSI ERM-TG41, ETSI ERM-TGDMR, ETSI ERMTGSRR, ETSI SC EMTEL, ETSI TC , RAN, ETSI TC DECT, ETSI TC ERM, ETSI TC ITS, ETSI TC TCCE, GSA, GSMA, iBurst Association, IEEE, ISO TC 204, OASIS, TIA, TIA TR-45, TIA TR-45.3, TIA TR-45.5, TIA TR-8, TTA, TTC, UMTS Forum, WGA, Wi-Fi Alliance, WiMAX Forum, XGP Forum. [↑](#footnote-ref-3)
4. <https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0114!N03!MSW-E#att1>. [↑](#footnote-ref-4)
5. *Rail external organizations:* ISO/IEC, ETSI, UIC, ERA, 3GPP, RAC, IEEE, APT, and AAR. [↑](#footnote-ref-5)