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| **Radiocommunication Study Groups** |  |
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| **17 June 2014** |
| **English only** |
| Annex 1 to Working Party 5A Chairman’s Report | |
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| WOrking PARTY 5A MANAGEMENT | |

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# 1 Status of texts of Working Party 5A[[1]](#footnote-1)

## 1.1 Questions

| Num-Rev. | Title | Category | App-Year | Last-Cont | Target-year | WG | Comment |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [1-5/5](http://www.itu.int/pub/R-QUE-SG05.1) | Interference protection ratios and minimum field strengths required in the land mobile services | S2 | 1998 | 2012 | 2015 | 4 |  |
| [7-7/5](http://www.itu.int/pub/R-QUE-SG05.7) | Characteristics of equipment for the land mobile service between 30 and 6 000 MHz | S2 | 1997 | 2012 | 2015 | 4 |  |
| [37-6/5](http://www.itu.int/pub/R-QUE-SG05.37) | Digital land mobile systems for specific applications | S2 | 1997 | 2012 | 2015 | 2, 3 |  |
| [48-6/5](http://www.itu.int/pub/R-QUE-SG05.48) | Techniques and frequency usage in the amateur service and amateur-satellite service | S2 | 2003 | 2012 | 2015 | 1 |  |
| [101-4/5](http://www.itu.int/pub/R-QUE-SG05.101) | Quality of service requirements in the land mobile service | S2 | 2003 | 2012 | 2015 | 2 |  |
| [205-5/5](http://www.itu.int/pub/R-QUE-SG05.205) | Intelligent transport systems | S2 | 2003 | 2012 | 2015 | 5 |  |
| [209-4/5](http://www.itu.int/pub/R-QUE-SG05.209) | Use of the mobile, amateur and amateur satellite services in support of disaster radiocommunications | S2 | 1998 | 2012 | 2015 | 1, 3 | *MSS aspects are addressed in SG 4 under* [*Question  ITU-R 286/4*](http://www.itu.int/publ/R-QUE-SG04.286/en) |
| [212-4/5](http://www.itu.int/pub/R-QUE-SG05.212) | Nomadic wireless access systems including radio local area networks | S2 | 2000 | 2012 | 2015 | 2, 4 |  |
| [215-4/5](http://www.itu.int/pub/R-QUE-SG05.215) | Frequency bands, technical characteristics, and operational requirements for fixed wireless access systems in the fixed and/or land mobile services | S2 | 2009 | 2012 | 2015 | 2, 4 |  |
| [230-3/5](http://www.itu.int/pub/R-QUE-SG05.230) | Software-defined radios | S2 | 2003 | 2012 | 2015 | 5 | *Being considered for revision or suppression.* |
| [238-2/5](http://www.itu.int/pub/R-QUE-SG05.238) | Mobile broadband wireless access systems | S2 | 2006 | 2012 | 2015 | 2, 4 |  |
| [241-2/5](http://www.itu.int/pub/R-QUE-SG05.241) | Cognitive radio systems in the mobile service | S2 | 2007 | 2012 | 2015 | 5 |  |
| [250-1/5](http://www.itu.int/pub/R-QUE-SG05.250) | Mobile wireless access systems providing telecommunications for a large number of ubiquitous sensors and/or actuators scattered over wide areas as well as machine to machine communications in the land mobile service | S2 | 2009 | 2012 | 2015 | 5 |  |
| [254/5](http://www.itu.int/pub/R-QUE-SG05/%20%20%20%20%20%20%20%20%20%20%20%20%20%20publications.aspx?lang=en&parent=R-QUE-SG05.254) | Operation of short-range radiocommunication public access system supporting hearing aid systems | S2 |  | 2013 | 2015 | 2 |  |

## 1.2 Recommendations and Reports in force

In the following tables the topic letter/numbers on the last column correspond to the following list:

A. Amateur services

1. Cellular systems

2. Cordless telecommunication systems

3. Intelligent transport systems (ITS)

4. Interference

5. Vocabulary

6. Paging systems

7. Public protection and disaster relief (PPDR)

8. Shared private systems

9. Spectrum sharing

10. Technology

11. Trunked systems

12. Wireless access, including RLANs.

NOTE – An approval date 31-Dec-xx indicates that the precise day and month of approval is not known.

| **Type** | **Series** | **Number** | **Rev** | **Title** | **Comments** | **Approved** | **WP** | **WG** | **Topic** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | 5A | 5 | 10 |
| Rec | M | [478](http://www.itu.int/rec/R-REC-M.478/en) | 5 | Technical characteristics of equipment and principles governing the allocation of frequency channels between 25 and 3 000 MHz for the FM land mobile service |  | 20 Oct 95 | 5A | 5 | 10 |
| Rec | M | [584](http://www.itu.int/rec/R-REC-M.584/en) | 2 | Codes and formats for radio paging |  | 29 Nov 97 | 5A | 2 | 6 |
| Rec | F | [592](http://www.itu.int/rec/R-REC-F.592) | 4 | Vocabulary of terms for the fixed service |  | 01 Sep 07 | 5A/5C | 2 | 5 |
| Rec | F | [697](http://www.itu.int/rec/R-REC-F.697) | 2 | Error performance and availability objectives for the local-grade portion at each end of an ISDN connection at a bit rate below the primary rate utilizing digital radio-relay systems | *This Rec. could be used only for systems designed prior to the approval of Rec. ITU-R F.1668* | 01 Sep 97 | 5A/5C | 2 | 12 |
| Rec | F | [701](http://www.itu.int/rec/R-REC-F.701) | 2 | Radio-frequency channel arrangements for digital point-to-multipoint radio systems operating in frequency bands in the range 1.350 to 2.690 GHz (1.5, 1.8, 2.0, 2.2, 2.4 and 2.6 GHz) | *Note: F.701 is the responsibility of WP 5A (Ref.:* [*Doc. 5/116*](http://www.itu.int/md/R07-SG05-C-0116/en) *and the last paragraph of Section 7.3.1 of* [*Doc. 5/124*](http://www.itu.int/md/R07-SG05-C-0124/en)*).* | 01 Sep 97 | 5A | 2 | 12 |
| Rep | M | [739](http://www.itu.int/publ/R-REP-M.739) | 1 | Interference due to intermodulation products in the land mobile service between 25 and 1 000 MHz |  | 31 Dec 95 | 5A | 4 | 4 |
| Rec | F | [746](http://www.itu.int/rec/R-REC-F.746) | 10 | Radio-frequency arrangements for fixed service systems |  | 15 Mar 12 | 5A/5C | 2 | 12 |
| Rec | F | [748](http://www.itu.int/rec/R-REC-F.748) | 4 | Radio-frequency arrangements for systems of the fixed service operating in the 25, 26 and 28 GHz bands |  | 01 Feb 01 | 5A/5C | 2 | 12 |
| Rec | F | [749](http://www.itu.int/rec/R-REC-F.749/en) | 3 | Radio-frequency arrangements for systems of the fixed service operating in sub-bands in the 36-40.5 GHz band |  | 15 Mar 12 | 5A/5C | 2 | 12 |
| Rec | F | [755](http://www.itu.int/rec/R-REC-F.755/en) | 2 | Point-to-multipoint systems in the fixed service |  | 01 May 99 | 5A/5C | 2 | 12 |
| Rec | F | [757](http://www.itu.int/rec/R-REC-F.757/en) | 4 | Basic system requirements and performance objectives for fixed wireless access using mobile-derived technologies offering telephony and data communication services |  | 19 Apr 11 | 5A | 2 | 12 |
| Rec | F | [758](http://www.itu.int/rec/R-REC-F.758/en) | 5 | System parameters and considerations in the development of criteria for sharing or compatibility between digital fixed wireless systems in the fixed service and systems in other services and other sources of interference |  | 15 Mar 12 | 5A/5C | 4 | 9, 12 |
| Rep | M | [778](http://www.itu.int/publ/R-REP-M.778) | 2 | Wireless communication systems for persons with impaired hearing |  | 31 Dec 90 | 5A | 2 | 10 |
| Rep | M | [902](http://www.itu.int/publ/R-REP-M.902) | 1 | Leaky-feeder systems in the land mobile service |  | 31 Dec 90 | 5A | 5 | 10 |
| 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 | 5A | 5 | 3, 7, 11 |
| 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 | 5A | 5 | 10 |
| Rep | M | [1023](http://www.itu.int/publ/R-REP-M.1023) | 1 | Frequency sharing between the land mobile service and the broadcasting service (television) below 1 GHz |  | 31 Dec 90 | 5A | 4 | 9 |
| Rep | M | [1025](http://www.itu.int/publ/R-REP-M.1025) | 1 | Technical and operating characteristics of cordless telephones |  | 31 Dec 90 | 5A | 2 | 2 |
| Rec | M | [1033](http://www.itu.int/rec/R-REC-M.1033/en) | 1 | Technical and operational characteristics of cordless telephones and cordless telecommunication systems |  | 28 Feb 97 | 5A | 2 | 2 |
| Rec | M | [1039](http://www.itu.int/rec/R-REC-M.1039/en) | 3 | Co-frequency sharing between stations in the mobile service below 1 GHz and mobile earth stations of non-geostationary mobile‑satellite systems (Earth-space) using frequency division multiple access (FDMA) | *To be jointly approved by SGs 4 and 5* | 19 Mar 06 | 5A, 4C | 4 | 9 |
| Rec | M | [1041](http://www.itu.int/rec/R-REC-M.1041/en) | 2 | Future amateur radio systems (FARS) |  | 19 Jun 03 | 5A | 1 | A |
| Rec | M | [1042](http://www.itu.int/rec/R-REC-M.1042/en) | 3 | Disaster communications in the amateur and amateur-satellite services |  | 14 Mar 07 | 5A | 1 | A, 7 |
| Rec | M | [1043](http://www.itu.int/rec/R-REC-M.1043/en) | 2 | Use of the amateur and amateur-satellite services in developing countries |  | 19 Jun 03 | 5A | 1 | A |
| Rec | M | [1044](http://www.itu.int/rec/R-REC-M.1044/en) | 2 | Frequency sharing criteria in the amateur and amateur-satellite services |  | 19 Jun 03 | 5A | 1 | A |
| Rec | M | [1072](http://www.itu.int/rec/R-REC-M.1072/en) | 0 | Interference due to intermodulation products in the land mobile service between 25 and 3 000 MHz |  | 16 Nov 93 | 5A | 4 | 4 |
| Rec | M | 1073 | 3 | Digital cellular land mobile telecommunication systems |  | 15 Mar 12 | 5A | 2 | 1 |
| Rec | M | [1074](http://www.itu.int/rec/R-REC-M.1074/en) | 0 | Integration of public mobile radiocommunication systems | *See Appendix 1 to Annex 1 to Doc. 5A/411. Contributions are solicited for further updates.* | 16 Nov 93 | 5A | 2 | 1 |
| Rec | M | [1075](http://www.itu.int/rec/R-REC-M.1075/en) | 0 | Leaky feeder systems in the land mobile services |  | 16 Nov 93 | 5A | 5 | 10 |
| Rec | M | [1076](http://www.itu.int/rec/R-REC-M.1076/en) | 0 | Wireless communication systems for persons with impaired hearing | *Being updated by WP 5A, see Annex 11 to* [*Doc. 5A/543*](http://www.itu.int/md/R12-WP5A-C-0543/en) | 16 Nov 93 | 5A | 2 | 10 |
| Rec | F | [1102](http://www.itu.int/rec/R-REC-F.1102/en) | 2 | Characteristics of fixed wireless systems operating in frequency bands above about 17 GHz |  | 01 Jan 05 | 5A/5C | 2 | 12 |
| Rec | F | [1103](http://www.itu.int/rec/R-REC-F.1103/en) | 1 | Basic requirements and technologies for fixed wireless systems operating in bands below 3 GHz for the provision of wireless subscriber connections in rural areas |  | 01 Sep 07 | 5A | 2 | 12 |
| Rec | F | [1105](http://www.itu.int/rec/R-REC-F.1105/en) | 3 | Fixed wireless systems for disaster mitigation and relief operations |  | 18 Feb 14 | 5A/5C | 3 | 7, 12 |
| Rec | F | [1107](http://www.itu.int/rec/R-REC-F.1107/en) | 2 | Probabilistic analysis for calculating interference into the fixed service from satellites using the geostationary orbit |  | 04 May 11 | 5A/5C | 4 | 4, 9 |
| Rec | F | [1108](http://www.itu.int/rec/R-REC-F.1108/en) | 4 | Determination of the criteria to protect fixed service receivers from the emissions of space stations operating in non-geostationary orbits in shared frequency bands |  | 01 Jan 05 | 5A/5C | 4 | 4, 9 |
| Rep | M | [1155](http://www.itu.int/publ/R-REP-M.1055) | 0 | Adaptation of mobile radiocommunication technology to the needs of developing countries |  | 31 Dec 90 | 5A, 5D | 2 | 10 |
| Rep | M | [1156](http://www.itu.int/publ/R-REP-M.1056) | 0 | Digital cellular public land mobile telecommunication systems (DCPLMTS) |  | 31 Dec 90 | 5A | 2 | 1 |
| Rep | M | [1157](http://www.itu.int/publ/R-REP-M.1057) | 0 | Integration of public mobile radiocommunication systems |  | 31 Dec 90 | 5A | 2 | 1 |
| Rec | F | [1191](http://www.itu.int/rec/R-REC-F.1191/en) | 3 | Necessary and occupied bandwidths and unwanted emissions of digital fixed service systems |  | 04 May 11 | 5A/5C | 2 | 4 |
| Rec | F | [1247](http://www.itu.int/rec/R-REC-F.1247/en) | 2 | Technical and operational characteristics of systems in the fixed service to facilitate sharing with the space research, space operation and Earth exploration-satellite services operating in the bands 2 025‑2 110 MHz and 2 200‑2 290 MHz |  | 06 Jun 09 | 5A/5C | 4 | 9, 12 |
| Rec | M | [1307](http://www.itu.int/rec/R-REC-M.1307/en) | 0 | Automatic determination of location and guidance in the land mobile services |  | 24 Oct 97 | 5A | 5 | 3, 7, 11 |
| Rec | M | [1308](http://www.itu.int/rec/R-REC-M.1308/en) | 0 | Evolution of land mobile systems towards IMT-2000 |  | 24 Oct 97 | 5A | 2 | 1 |
| Rec | F | [1336](http://www.itu.int/rec/R-REC-F.1336/en) | 4 | Reference radiation patterns of omnidirectional, sectoral and other antennas in point-to-multipoint systems for use in sharing studies in the frequency range from 1 to about 70 GHz |  | 18 Feb 14 | 5A/5C | 2 | 9, 12 |
| Rec | M | [1388](http://www.itu.int/rec/R-REC-M.1388/en) | 0 | Threshold levels to determine the need to coordinate between space stations in the broadcasting-satellite service (sound) and particular systems in the land mobile service in the band 1 452-1 492 MHz |  | 14 Jan 99 | 5A | 4 | 9 |
| Rec | F | [1399](http://www.itu.int/rec/R-REC-F.1399/en) | 1 | Vocabulary of terms for wireless access |  | 01 Feb 01 | 5A | 2 | 5 |
| Rec | F | [1400](http://www.itu.int/rec/R-REC-F.1400/en) | 0 | Performance and availability requirements and objectives for fixed wireless access to public switched telephone network |  | 01 May 99 | 5A | 2 | 12 |
| Rec | F | [1401](http://www.itu.int/rec/R-REC-F.1401/en) | 1 | Considerations for the identification of possible frequency bands for fixed wireless access and related sharing studies | *Editorial update in* [*Doc. 5/293*](http://www.itu.int/md/R07-SG05-C-0293/en) *approved by SG 5 on 2011-11-22* | 01 Jan 04 | 5A | 2 | 9, 12 |
| Rec | F | [1402](http://www.itu.int/rec/R-REC-F.1402/en) | 0 | Frequency sharing criteria between a land mobile wireless access system and a fixed wireless access system using the same equipment type as the mobile wireless access system |  | 01 May 99 | 5A | 2 | 9, 12 |
| Rec | F | [1404](http://www.itu.int/rec/R-REC-F.1404/en) | 1 | Minimum propagation attenuation due to atmospheric gases for use in frequency sharing studies between systems in the fixed service and systems in the broadcasting‑satellite, mobile‑satellite and space science services |  | 01 May 02 | 5A/5C | 2 | 9 |
| Rec | M | [1450](http://www.itu.int/rec/R-REC-M.1450/en) | 5 | Characteristics of broadband radio local area networks |  | 17 Apr 14 | 5A | 2 | 12 |
| Rec | M | [1452](http://www.itu.int/rec/R-REC-M.1452/en) | 2 | Millimetre wave radiocommunication systems for intelligent transport system applications |  | 22 May 12 | 5A | 5 | 3 |
| Rec | M | [1453](http://www.itu.int/rec/R-REC-M.1453/en) | 2 | Intelligent transport systems – Dedicated short range communications at 5.8 GHz |  | 15 Jun 05 | 5A | 5 | 3 |
| Rec | M | [1454](http://www.itu.int/rec/R-REC-M.1454/en) | 0 | E.i.r.p. density limit and operational restrictions for RLANS or other wireless access transmitters in order to ensure the protection of feeder links of non‑geostationary systems in the mobile-satellite service in the frequency band 5 150‑5 250 MHz | *Jointly developed by SGs 4 and 5* | 05 May 00 | 5A, 4A | 4 | 4, 12 |
| Rec | F | [1488](http://www.itu.int/rec/R-REC-F.1488/en) | 0 | Frequency block arrangements for fixed wireless access systems in the range 3 400‑3 800 MHz |  | 01 May 00 | 5A | 2 | 12 |
| Rec | F | [1489](http://www.itu.int/rec/R-REC-F.1489/en) | 0 | A methodology for assessing the level of operational compatibility between fixed wireless access and radiolocation systems when sharing the band 3.4-3.7 GHz |  | 01 May 00 | 5A | 4 | 9, 12 |
| Rec | F | [1490](http://www.itu.int/rec/R-REC-F.1490/en) | 1 | Generic requirements for fixed wireless access systems |  | 01 Sep 07 | 5A | 2 | 12 |
| Rec | F | [1499](http://www.itu.int/rec/R-REC-F.1499/en) | 0 | Radio transmission systems for fixed broadband wireless access based on cable modem standard |  | 01 May 00 | 5A | 2 | 12 |
| Rec | F | [1509](http://www.itu.int/rec/R-REC-F.1509/en) | 0 | Technical and operational requirements that facilitate sharing between point‑to‑multipoint systems in the fixed service and the inter-satellite service in the band  25.25‑27.5 GHz | *Jointly developed by Study Groups 7 and 9. Under draft revision by WP 5C* | 01 Feb 01 | 5A/5C | 2 | 9 |
| Rec | F | [1518](http://www.itu.int/rec/R-REC-F.1518/en) | 0 | Spectrum requirement methodology for fixed wireless access and mobile wireless access networks using the same type of equipment, when coexisting in the same frequency band |  | 01 May 01 | 5A | 2 | 9,12 |
| Rec | F | [1519](http://www.itu.int/rec/R-REC-F.1519/en) | 0 | Guidance on frequency arrangements based on frequency blocks for systems in the fixed service |  | 01 Feb 01 | 5A/5C | 2 | 12 |
| Rec | M | [1544](http://www.itu.int/rec/R-REC-M.1544/en) | 0 | Minimum qualifications of radio amateurs |  | 17 Aug 01 | 5A | 1 | A |
| Rec | F | [1567](http://www.itu.int/rec/R-REC-F.1567/en) | 0 | Radio-frequency channel arrangement for digital fixed wireless systems operating in the frequency band 406.1-450 MHz |  | 01 May 02 | 5A/5C | 2 | 12 |
| Rec | F | [1568](http://www.itu.int/rec/R-REC-F.1568/en) | 1 | Radio-frequency block arrangements for fixed wireless access systems in the range 10.15-10.3/10.5-10.65 GHz |  | 01 Jan 05 | 5A/5C | 2 | 12 |
| Rec | F | [1613](http://www.itu.int/rec/R-REC-F.1613/en) | 0 | Operational and deployment requirements for fixed wireless access systems in the fixed service in Region 3 to ensure the protection of systems in the Earth exploration-satellite service (active) and the space research service (active) in the band 5 250‑5 350 MHz | *Jointly developed by Study Groups 7 and 9. Incorporated by reference in RR* | 01 Feb 03 | 5A | 4 | 9, 12 |
| Rec | M | [1634](http://www.itu.int/rec/R-REC-M.1634/en) | 0 | Interference protection of terrestrial mobile service systems using Monte Carlo simulation with application to frequency sharing |  | 19 Jun 03 | 5A | 4 | 4, 9 |
| Rec | M | [1637](http://www.itu.int/rec/R-REC-M.1637/en) | 0 | Global cross-border circulation of radiocommunication equipment in emergency and disaster relief situations |  | 06 Jun 03 | 5A | 3 | 7 |
| Rec | M | [1651](http://www.itu.int/rec/R-REC-M.1651/en) | 0 | A method for assessing the required spectrum for broadband nomadic wireless access systems including RLANs using the 5 GHz band |  | 06 Jun 03 | 5A | 2 | 12 |
| Rec | M | [1652](http://www.itu.int/rec/R-REC-M.1652/en) | 1 | Dynamic frequency selection in wireless access systems including radio local area networks for the purpose of protecting the radiodetermination service in the 5 GHz band | *Referenced in Resolution 229. Incorporated by reference in RR* | 04 May 11 | 5A | 4 | 9, 12 |
| Rec | M | [1653](http://www.itu.int/rec/R-REC-M.1653/en) | 0 | Operational and deployment requirements for wireless access systems (WAS) including radio local area networks (RLANs) in the mobile service to facilitate sharing between these systems and systems in the Earth exploration-satellite service (active) and the space research service (active) in the band 5 470-5 570 MHz within |  | 06 Jun 03 | 5A | 4 | 9, 12 |
| Rec | F | [1670](http://www.itu.int/rec/R-REC-F.1670) | 1 | Protection of fixed wireless systems from terrestrial digital video and sound broadcasting systems in the shared VHF and UHF bands |  | 01 May 06 | 5A/5C | 4 | 4, 9, 12 |
| Rec | F | [1671](http://www.itu.int/rec/R-REC-F.1671/en) | 0 | Guidelines for a process to address the deployment of area‑licensed fixed wireless systems operating in neighbouring countries |  | 01 Jan 04 | 5A/5C | 2 | 12 |
| Rec | M | [1677](http://www.itu.int/rec/R-REC-M.1677) | 1 | International Morse code |  | Oct 09 | 5A | 1 | A |
| Rec | M | [1678](http://www.itu.int/rec/R-REC-M.1678) | 0 | Adaptive antennas for mobile systems |  | 03 May 04 | 5A | 5 | 10 |
| Rec | F | [1704](http://www.itu.int/rec/R-REC-F.1704) | 0 | Characteristics of multipoint-to-multipoint (MP-MP) fixed wireless systems with mesh network topology operating in frequency bands above about 17 GHz |  | 01 Jan 05 | 5A/5C | 2 | 12 |
| Rec | M | [1732](http://www.itu.int/rec/R-REC-M.1732) | 1 | Characteristics of systems operating in the amateur and amateur-satellite services for use in sharing studies. |  | 15 Mar 12 | 5A | 1 | A |
| Rec | M | [1739](http://www.itu.int/rec/R-REC-M.1739) | 0 | Protection criteria for wireless access systems, including radio local area networks, operating in the mobile service in accordance with Resolution 229 (WRC‑03) in the bands 5 150‑5 250 MHz, 5 250‑5 350 MHz and 5 470-5 725 MHz |  | 19 Mar 06 | 5A | 2 | 4, 9, 12 |
| Rec | M | [1746](http://www.itu.int/rec/R-REC-M.1746) | 0 | Harmonized frequency channel plans for the protection of property using data communication |  | 20 Mar 06 | 5A | 2 | 7 |
| Rec | F | [1760](http://www.itu.int/rec/R-REC-F.1760) | 0 | Methodology for the calculation of the aggregate equivalent isotropically radiated power (a.e.i.r.p.) distribution from point‑to‑multipoint high-density applications in the fixed service operating in bands above 30 GHz identified for such use |  | 01 May 06 | 5A/5C | 2 | 4, 12 |
| Rec | F | [1763](http://www.itu.int/rec/R-REC-F.1763) | 1 | Radio interface standards for broadband wireless access systems in the fixed service operating below 66 GHz |  | 18 Feb 14 | 5A | 2 | 12 |
| Rec | F | [1766](http://www.itu.int/rec/R-REC-F.1766) | 0 | Methodology to determine the probability of a radio astronomy observatory receiving interference based on calculated exclusion zones to protect against interference from point-to-multipoint high-density applications in the fixed service operating in bands around 43 GHz |  | 01 Apr 06 | 5A/5C | 4 | 4, 9, 12 |
| Rec | M | [1767](http://www.itu.int/rec/R-REC-M.1767) | 0 | Protection of land mobile systems from terrestrial digital video and audio broadcasting systems in the VHF and UHF shared bands allocated on a primary basis |  | 02 Jun 06 | 5A | 4 | 4, 9, 1, 12 |
| Rec | M | [1797](http://www.itu.int/rec/R-REC-M.1797) | 0 | Vocabulary of terms for the land mobile service | *Being updated by WP 5A, see Annex 25 to* [*Doc. 5A/79*](http://www.itu.int/md/R12-WP5A-C-0079/en) | 08 Mar 07 | 5A | All | 5 |
| Rec | M | [1801](http://www.itu.int/rec/R-REC-M.1801) | 2 | Radio interface standards for broadband wireless access systems, including mobile and nomadic applications, in the mobile service operating below 6 GHz |  | 11 Feb 13 | 5A | 2 | 12 |
| Rec | M | [1808](http://www.itu.int/rec/R-REC-M.1808) | 0 | Technical and operational characteristics of conventional and trunked land mobile systems operating in the mobile service allocations below 869 MHz to be used in sharing studies |  | 16 Jun 07 | 5A | 4 | 9 |
| Rec | M | [1823](http://www.itu.int/rec/R-REC-M.1823) | 0 | Technical and operational characteristics of digital cellular land mobile systems for use in sharing studies |  | 25 Oct 07 | 5A | 4 | 1, 9 |
| Rec | M | [1824](http://www.itu.int/rec/R-REC-M.1824) | 0 | System characteristics of television outside broadcast (TVOB), electronic news gathering (ENG) and electronic field production (EFP) in the mobile service for use in sharing studies | *Being updated by WP 5A, see Annex 17 to* [*Doc. 5A/543*](http://www.itu.int/md/R12-WP5A-C-0543en) | 25 Oct 07 | 5A | 4 | 9 |
| Rec | M | [1825](http://www.itu.int/rec/R-REC-M.1825) | 0 | Guidance on technical parameters and methodologies for sharing studies related to systems in the land mobile service |  | 25 Oct 07 | 5A | 4 | 1, 9 |
| Rec | M | [1826](http://www.itu.int/rec/R-REC-M.1826) | 0 | Harmonized frequency channel plan for broadband public protection and disaster relief operations at 4 940‑4 990 MHz in Regions 2 and 3 |  | 25 Oct 07 | 5A | 3 | 7 |
| Rec | M | [1890](http://www.itu.int/rec/R-REC-M.1890) | 0 | Intelligent transport systems - Guidelines and objectives |  | 19 Apr 11 | 5A | 5 | 3 |
| Rec | M | [2002](http://www.itu.int/rec/R-REC-M.2002/en) | 0 | Objectives, characteristics and functional requirements of wide-area sensor and/or actuator network (WASN) systems |  | 15 Mar 12 | 5A | 5 | 12 |
| Rec | M | [2003](http://www.itu.int/rec/R-REC-M.2003/en) | 0 | Multiple-Gigabit wireless systems in frequencies around 60 GHz | *Draft revision submitted to SG 5 (*[*Doc. 5/105*](http://www.itu.int/md/R12-SG05-C-0105/en)*)* | 15 Mar 12 | 5A | 2 | 12 |
| Rec | M | [2009](http://www.itu.int/rec/R-REC-M.2009/en) | 0 | Radio interface standards for use by public protection and disaster relief operations in some parts of the UHF band in accordance with Resolution 646 (WRC-03) | *Being updated by WP 5A, see Annex 13 to* [*Doc. 5A/543*](http://www.itu.int/md/R12-WP5A-C-0543en) | 15 Mar 12 | 5A | 3 | 7 |
| Rep | M | [2014](http://www.itu.int/publ/R-REP-M.2014) | 2 | Digital land mobile systems for dispatch traffic |  | 19 Nov 12 | 5A | 3 | 11 |
| Rec | M | [2015](http://www.itu.int/rec/R-REC-M.2015/en) | 0 | Frequency arrangements for public protection and disaster relief radiocommunication systems in UHF bands in accordance with Resolution 646 (WRC-03) | *Being updated by WP 5A, see Annex 15 to* [*Doc. 5A/543*](http://www.itu.int/md/R12-WP5A-C-0543en) | 15 Mar 12 | 5A | 3 | 7 |
| Rep | M | [2033](http://www.itu.int/publ/R-REP-M.2033) | 0 | Radiocommunication objectives and requirements for public protection and disaster relief (PPDR) | *Anticipated to be superseded by new PPDR report and consequentially suppressed* | 05 Feb 03 | 5A | 3 | 7 |
| Rec | M | [2034](http://www.itu.int/rec/R-REC-M.2034/en) | 0 | Telegraphic alphabet for data communication by phase shift keying at 31 baud in the amateur and amateur-satellite services |  | 11 Feb 13 | 5A | 1 | A |
| Rep | M | [2034](http://www.itu.int/publ/R-REP-M.2034) | 0 | Impact of radar detection requirements of dynamic frequency selection on 5 GHz wireless access system receivers |  | 05 Feb 03 | 5A | 4 | 9, 12 |
| Rep | M | [2040](http://www.itu.int/publ/R-REP-M.2040) | 0 | Adaptive antennas concepts and key technical aspects |  | 05 Dec 03 | 5A | 5 | 10 |
| Rec | M | [2057](http://www.itu.int/publ/R-REP-M.2057) | 0 | Systems characteristics of automotive radars operating in the frequency band 76-81 GHz for intelligent transport systems applications |  | 18 Feb 14 | 5A | 5 | 3 |
| Rep | F | [2058](http://www.itu.int/publ/R-REP-F.2058) | 0 | Design techniques applicable to broadband fixed wireless access (FWA) systems conveying Internet protocol (IP) packets or asynchronous transfer mode (ATM) cells |  | 01 Dec 05 | 5A | 2 | 12 |
| Rep | M | [2085](http://www.itu.int/publ/R-REP-M.2085) | 1 | Role of the amateur and amateur satellite services in support of disaster mitigation and relief |  | 23 Nov 11 | 5A | 1 | 7 |
| Rep | F | [2086](http://www.itu.int/publ/R-REP-F.2086) | 1 | Technical and operational characteristics and applications of broadband wireless access in the fixed service |  | 23 Nov 10 | 5A | 2 | 12 |
| Rep | M | [2114](http://www.itu.int/publ/R-REP-M.2114) | 0 | Key technical and operational characteristics for access technologies to support IP applications over land mobile systems |  | 26 Jun 07 | 5A | 5 | 10 |
| Rep | M | [2115](http://www.itu.int/publ/R-REP-M.2115) | 1 | Testing procedures for implementation of dynamic frequency selection |  | 07 Dec 09 | 5A | 4 | 9, 12 |
| Rep | M | [2116](http://www.itu.int/publ/R-REP-M.2116) | 2 | Characteristics of broadband wireless access systems operating in the land mobile service to be used in sharing studies |  | 26 Jun 07 23 Nov 10  3 Dec 13 | 5A | 4 | 9, 12 |
| Rep | M | [2117](http://www.itu.int/publ/R-REP-M.2117) | 1 | Software defined radio in the land mobile, amateur and amateur-satellite services | *Replaces M.2063 and M.2064.* | 19 Nov 12 | 5A | 5 | 10 |
| Rep | M | [2141](http://www.itu.int/publ/R-REP-M.2141) | 0 | Study of the isolation between VHF land mobile radio antennas in close proximity |  | 29 May 09 | 5A | 4 | 4 |
| Rep | S | [2199](http://www.itu.int/pub/R-REP-S.2199) | 0 | Studies on compatibility of broadband wireless access (BWA) systems and fixed-satellite service (FSS) networks in the 3 400‑4 200 MHz band | *Jointly developed by SGs 4 and 5* | 22 Nov 10 | 4A, 5A | 4 | 4, 9 |
| Rep | M | [2200](http://www.itu.int/pub/R-REP-M.2200) | 0 | Characteristics of amateur radio stations in the range 415-526.5 kHz for sharing studies |  | 22 Nov 10 | 5A | 1 | A |
| Rep | M | [2203](http://www.itu.int/pub/R-REP-M.2203) | 0 | Compatibility of amateur service stations with existing services in the range 415-526.5 kHz |  | 22 Nov 10 | 5A | 1 | A |
| Rep | M | [2224](http://www.itu.int/publ/R-REP-M.2224) | 0 | System design guidelines for wide area sensor and/or actuator network (WASN) systems |  | 22 Nov 12 | 5A | 5 | 12 |
| Rep | M | [2225](http://www.itu.int/publ/R-REP-M.2225) | 0 | Introduction to cognitive radio systems in the land mobile service |  | 23 Nov 12 | 5A | 5 | 10 |
| Rep | M | [2226](http://www.itu.int/publ/R-REP-M.2226) | 0 | Description of amateur and experimental operation between 415 and 526.5 kHz in some countries |  | 23 Nov 12 | 5A | 1 | A |
| Rep | M | [2227](http://www.itu.int/publ/R-REP-M.2227) | 0 | Multiple Gigabit wireless systems in frequencies around 60 GHz | *Draft revision submitted to SG 5 (*[*Doc. 5/104*](http://www.itu.int/md/R12-SG05-C-0104/en)*)* | 23 Nov 12 | 5A | 2 | 12 |
| Rep | M | [2228](http://www.itu.int/publ/R-REP-M.2228) | 0 | Advanced intelligent transport systems (ITS) radiocommunications | *Being updated by WP 5A, see Annex 20 to* [*Doc. 5A/198*](http://www.itu.int/md/R12-WP5A-C-0198/en) | 23 Nov 12 | 5A | 5 | 3 |
| Rep | M | [2264](http://www.itu.int/publ/R-REP-M.2264) | 0 | Guidance for the development of band plans with contiguous bandwidths for mobile broadband applications for use in spectrum planning |  | 19 Nov 12 | 5A | 4 | 1, 9 |
| Rep | M | [2281](http://www.itu.int/publ/R-REP-M.2281) | 0 | Characteristics of amateur radio stations in the range 5 250-5 450 kHz for sharing studies |  | 3 Dec 13 | 5A | 1 | A |
| Rep | M | [2282](http://www.itu.int/publ/R-REP-M.2282) | 0 | Systems for public mobile communications with aircraft |  | 3 Dec 13 | 5A | 2 | 10 |

## 1.3 Handbooks, Opinions and Resolutions

| **Type** | **No.** | **Rev** | **Title** | **Comments** | **Approved** | **WP** | **WG** | **Topics** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Handbook | [**25**](http://www.itu.int/publ/R-HDB-25) | 0 | Land mobile (including wireless access) [Volume 1](http://www.itu.int/pub/R-HDB-25/en): Fixed wireless access | *2nd edition* | 31 Dec. 01 | 5A | 2 | 12 |
| Handbook | [**30**](http://www.itu.int/pub/R-HDB-30/en) | 0 | Land mobile (including wireless access) [Volume 2](http://www.itu.int/pub/R-HDB-30/en): Principles and approaches on Evolution to IMT-2000/FPLMTS |  | 31 Dec. 97 | 5D |  | 12 |
| Handbook | [**47**](http://www.itu.int/publ/R-HDB-47) | 0 | Land mobile (including wireless access) [Volume 3](http://www.itu.int/pub/R-HDB-47/en): Dispatch and advanced messaging systems |  | 13 Apr. 05 | 5A | 3 | 6, 12 |
| Handbook | [**49**](http://www.itu.int/publ/R-HDB-49) | 0 | Land mobile (including wireless access) [Volume 4](http://www.itu.int/pub/R-HDB-49/en): Intelligent transportation systems |  | 21 Sep. 06 | 5A | 5 | 3 |
| Handbook | [**57**](http://www.itu.int/pub/R-HDB-57-2011) | 0 | Land mobile (including wireless access) [Volume 5](http://www.itu.int/pub/R-HDB-57-2011): Deployment of Broadband Wireless Access systems |  | 17 Nov. 10 | 5A | 2 | 12 |
| Handbook | [**52**](http://www.itu.int/publ/R-HDB-52) | 0 | Amateur service and amateur-satellite service Handbook | *2013 edition approved by WP 5A on 22 Nov 2013* | 15 Jun. 07 | 5A | 1 | A |
| Opinion | [**95**](http://www.itu.int/publ/R-OP-R.95) | 0 | Cooperation and harmonization in the future activities of the Radiocommunication (ITU‑R) and Telecommunication Standardization (ITU-T) Sectors |  | 31 Dec. 97 | 5A, 5B, 5C, 5D | 2 | 12 |
| [Res.229 (Rev.WRC-12)](http://www.itu.int/oth/R0A06000018/en) | | | Use of the bands 5 150-5 250 MHz, 5 250‑5 350 MHz and 5 470-5 725 MHz by the mobile service for the implementation of wireless access systems including radio local area networks |  | 2003 | 5A | 2 | 9, 12 |
| [Res.644 (Rev.WRC-12)](http://www.itu.int/oth/R0A06000019/en) | | | Radiocommunication resources for early warning, disaster mitigation and relief operations |  | 2007 | 5A | 3 | 7 |
| [Res.646 (Rev.WRC-12)](http://www.itu.int/oth/R0A0600001A/en) | | | Public protection and disaster relief | *Revisions being considered under WRC-15 agenda item 1.3* | 2003 | 5A | 3 | 7 |
| [Res.647 (Rev.WRC-12)](http://www.itu.int/oth/R0A0600001B/en) | | | Spectrum management guidelines for emergency and disaster relief radiocommunication | *Revisions being considered under WRC-15 agenda item 9.1, issue 9.1.7* | 2007 | 5A | 3 | 7 |
| [Res.703 (WRC-07)](http://www.itu.int/oth/R0A0600001C/en) | | | Calculation methods and interference criteria recommended by ITU-R for sharing frequency bands between space radiocommunication and terrestrial radiocommunication services or between space radiocommunication services |  | 2007 | 5A | 4 | 4 |

# NOTE – An approval date 31/12/xxxx indicates that the precise day and month of approval is not known.

# 2 Organization of Working Party 5A

## 2.1 Mandate and responsibility of the Working Groups

The mandate and responsibility of each Working Group is to carry out the work in response to ITU‑R Questions and WRC Recommendations/Resolutions, as well as the designated preparatory work for WRC-15. [Section 2.2](#s22) provides the structure of Working Party 5A.

Each Working Group is to carry out work program as follows:

1) consider all input contributions assigned to it and act on them accordingly;

2) based on input contributions, carry out work programs associated with questions designated to it;

3) carry out work program resulting from the first Conference Preparatory Meeting (CPM15-1) for WRC-15 outlined in [Section 3](#s3);

4) review the ITU-R related Questions to bring them up to date and to consider their relevance to current work within Working Party 5A;

5) identify any Recommendations or Reports that require updates and revisions;

6) prepare and approve output documents for consideration by the Plenary of WP 5A (Note: Documents prepared by the working groups for consideration by WP 5A should be approved as numbered 5A/TEMP/ documents before submission to WP 5A);

7) prepare and approve any required liaison statement to other Working Parties, Study Groups, and External Organizations for consideration and approval by the Plenary of Working Party 5A for transmission to the appropriate Groups;

8) identify areas of work that require future contributions from ITU-R Membership;

9) prepare texts to form part of the land mobile Handbook;

10) the working group can create sub-working groups and drafting groups to facilitate its work as required (Note: presentation of input contributions should not be delegated to drafting groups);

11) maintain the momentum of work and to be able to meet the requirements on a timely basis, the working group could carry out its work by correspondence between meetings of Working Party 5A;

12) conduct work on vocabulary in accordance with Resolutions ITU-R [33-3](http://www.itu.int/pub/R-RES-R.33/en), [34-3](http://www.itu.int/pub/R-RES-R.34/en), [35-3](http://www.itu.int/pub/R-RES-R.35/en), and [36-3](http://www.itu.int/pub/R-RES-R.36/en), and bring to the attention of WP 5A proposed terms and definitions to be sent to the [CCV](http://www.itu.int/ITU-R/go/rccv) for consideration before the formal adoption and approval of the related Recommendations.

The Chairman of each Working Group is to provide a written Report covering work activities carried out during the meeting, including an executive summary of the results of the meeting and the objectives for the following meeting. This Report will form part of the Working Party 5A Chairman’s Report. The Report should also include the status of the input contributions, list of areas requiring future contributions, and status of ITU-R Questions, Recommendations, Reports and Handbooks.

## 2.2 Structure of Working Party 5A

The structure of Working Party 5A is follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Group | Title | Resolutions, Recommendations, Questions .../5 | Chairman |
| WG 5A-1 | Amateur services | [AI 1.4](http://www.itu.int/ITU-R/index.asp?category=study-groups&rlink=rcpm-wrc-15-studies&lang=en#{2C689105-A236-4E2D-BE2D-516585FDCF9B}) ([Res. 649 (WRC-12)](http://www.itu.int/oth/tiesonly/download.aspx?file=R0C0A00000A0018PDFE.pdf));  [Q. 48-6](http://www.itu.int/publ/R-QUE-SG05.48/en); [Q. 209-4](http://www.itu.int/pub/R-QUE-SG05.209/en) (Amateur aspects only) | Dale Hughes, Australia |
| WG 5A-2 | Systems and standards | Wireless Access: [Q. 101-4](http://www.itu.int/pub/R-QUE-SG05.101/en) and (except sharing aspects) [Q. 212-4](http://www.itu.int/pub/R-QUE-SG05.212/en), [Q. 215-4](http://www.itu.int/pub/R-QUE-SG05.215/en), [Q. 238-2](http://www.itu.int/pub/R-QUE-SG05.238/en)  Accessibility and Human Factors: [Q.254/5](http://www.itu.int/pub/R-QUE-SG05.254-2014)  Specific Appl.: [Q. 37-6](http://www.itu.int/pub/R-QUE-SG05.37/en) (except PPDR)  Climate Change: [Res. 60](http://www.itu.int/pub/R-RES-R.60/en)  Conformance: [Res. 62](http://www.itu.int/pub/R-RES-R.62/en) | Lang Baozhen, China |
| WG 5A-3 | PPDR | [AI 1.3](http://www.itu.int/ITU-R/index.asp?category=study-groups&rlink=rcpm-wrc-15-studies&lang=en#{6A1401F9-1E73-432B-85D6-954CC64EF493}) ([Res. 648 (WRC-12)](http://www.itu.int/oth/tiesonly/download.aspx?file=R0C0A00000A0017PDFE.pdf));  [Res. 644 (Rev.WRC-12)](http://www.itu.int/oth/R0A06000019/en), [Res. 646 (Rev.WRC‑12)](http://www.itu.int/oth/R0A0600001A/en),  [Res. 647 (Rev.WRC-12)](http://www.itu.int/oth/R0A0600001B/en); [Res. 53-1](http://www.itu.int/publ/R-RES-R.53/en), [Res. 55-1](http://www.itu.int/publ/R-RES-R.55/en); [Q. 37-6](http://www.itu.int/pub/R-QUE-SG05.37/en) (PPDR aspects only); [Q. 209-4](http://www.itu.int/pub/R-QUE-SG05.209/en) (Mobile aspects only) | Amy Sanders, USA |
| WG 5A-4 | Interference and sharing | [Res. 229 (Rev.WRC-12)](http://www.itu.int/oth/R0A06000018/en), [Res.703 (WRC-07)](http://www.itu.int/oth/R0A0600001C/en);  Rec. 34 (WRC-12); [Q. 1-5](http://www.itu.int/pub/R-QUE-SG05.1/en), [Q. 7-7](http://www.itu.int/pub/R-QUE-SG05.7/en)  Sharing aspects of: [Q. 212-4](http://www.itu.int/pub/R-QUE-SG05.212/en), [Q. 215-4](http://www.itu.int/pub/R-QUE-SG05.215/en), [Q. 238-2](http://www.itu.int/pub/R-QUE-SG05.238/en) | Michael Kraemer, Germany |
| WG 5A-5 | New technologies | SDR: [Q. 230-3](http://www.itu.int/pub/R-QUE-SG05.230/en)  CRS: [Res. 58](http://www.itu.int/publ/R-RES-R.58/en); Rec. 76 (WRC-12); [Q. 241-2](http://www.itu.int/pub/R-QUE-SG05.241/en)  ITS: AI 1.18 ([Res. 654 (WRC-12), invites iii)](http://www.itu.int/oth/tiesonly/download.aspx?file=R0C0A00000A0023PDFE.pdf)); [Q  205-5](http://www.itu.int/pub/R-QUE-SG05.205/en)  WASN: [Q. 250-1](http://www.itu.int/pub/R-QUE-SG05.250) | Hitoshi Yoshino, Japan |

|  |  |
| --- | --- |
| Liaison Rapporteurs\* | Topic |
| Gabrielle Owen, The Netherlands | Report on relevant activities in certain countries in Region 1 |
| Brennan Price, USA | Report on relevant activities in certain countries in Region 2 |
| Hitoshi Yoshino, Japan | Report on relevant activities in certain countries in Region 3 |
| Amy Sanders, USA | Report on [disaster relief](http://www.itu.int/ITU-R/index.asp?category=information&link=emergency&lang=en) |
| Hitoshi Yoshino, Japan | [WWRF](http://www.wireless-world-research.org/) (Wireless World Research Forum) |
| Paul Najarian, USA | Report on [ITS communication standards collaboration](http://www.itu.int/en/ITU-T/extcoop/cits/Pages/default.aspx) |
| Brian Copsey, UK | Report on [ITU-T JCA-AHF](http://www.itu.int/en/ITU-T/jca/ahf/Pages/default.aspx) |

\* See Section 5.2 of [Resolution ITU-R 1-6](http://www.itu.int/pub/R-RES-R.1).

|  |  |  |
| --- | --- | --- |
| Rapporteurs | Topic | Resolutions |
| Gabrielle Owen, The Netherlands | Land mobile Handbook (including wireless access) | [Res. 12-1](http://www.itu.int/pub/R-RES-R.12/en) |
| Christian Rissone, France | Vocabulary | [Res. 33-2](http://www.itu.int/pub/R-RES-R.33/en), [Res. 34-2](http://www.itu.int/pub/R-RES-R.34/en), [Res. 35-2](http://www.itu.int/pub/R-RES-R.35/en), [Res. 36-2](http://www.itu.int/pub/R-RES-R.36/en) |

## **2.3 Guidelines for the preparation of WP 5A texts**

Working Party 5A encourages the use of the ITU English Style Guide for the preparation of texts: <http://www.itu.int/SG-CP/docs/styleguide.doc>.

Pending further guidance from the Radicommunication Assembly on the format of Recommendations (cf. Sections 5.1 and 5.2 of [Document RA12/PLEN/116](http://www.itu.int/md/R12-RA12-C-0116/en)), WP 5A will continue to follow the guidance in Section 2.12 of Annex 2 of the “Guidelines for Radiocommunication Assembly and Study Group Meetings and Documentation”, Edition 2, published in [Administrative Circular CA/13](http://www.itu.int/md/R00-CA-CIR-0013/en)[[2]](#footnote-2).”

It is also noted that the RAG has prepared a document “[Format of ITU-R Recommendations](http://www.itu.int/dms_pub/itu-r/oth/0a/0E/R0A0E0000970001MSWE.docx)” that will need to be considered by RA-15.

# 3 Preparatory work for WRC-15

CPM-15-1 has identified WP 5A as a responsible group or concerned group for a number of WRC‑15 agenda items, refer to [Circular Letter CA/201](http://www.itu.int/md/R00-CA-CIR-0201/en). Furthermore, [Doc. 5A/7](http://www.itu.int/md/R12-WP5A-C-0007/en) provides a summary of WRC-15 agenda items for which Working Parties in Study Group 5 are a responsible or concerned group:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Agenda item** | **Topic** | **Resolution** | **WP 5A** | **WP 5B** | **WP 5C** | **WP 5D** |
| 1.1 | Additional bands for IMT | 223 (WRC-12) | C | C | C | C |
| 1.2 | MS use of 694-790 MHz in R1 | 232 (WRC-12) | C | C |  | C |
| 1.3 | Broadband PPDR | 648 (WRC-12) | **R** | C | C | C |
| 1.4 | AS allocation– 5 250-5 450 kHz | 649 (WRC-12) | **R** | C | C |  |
| 1.5 | Use of UAS in the FSS bands | 153 (WRC-12) |  | **R** |  |  |
| 1.6 | Additional bands for FSS | 151 (WRC-12), 152 (WRC-12) | C | C | C |  |
| 1.7 | Use of FSS in 5 091-5 150 MHz | 114 (Rev.WRC-12) | I | C |  |  |
| 1.8 | Review of provisions for ESVs | 909 (WRC-12) | C | C | C |  |
| 1.9.1 | New allocation to FSS | 758 (WRC-12) | C |  | C |  |
| 1.9.2 | New allocation to MMSS | C | C | C |  |
| 1.10 | Additional allocation to MSS  22-26 GHz | 234 (WRC-12) | C |  | C |  |
| 1.11 | Allocation to EESS 7-8 GHz | 650 (WRC-12) | C |  | C |  |
| 1.12 | Allocation to EESS 9.3-9.9 GHz | 651 (WRC-12) | C | C | C |  |
| 1.13 | Review of SRS operation  – 410-420 MHz | 652 (WRC-12) | C |  | C |  |
| 1.14 | Future UTC | 653 (WRC-12)] |  |  |  |  |
| 1.15 | On board MMS in UHF bands | 358 (WRC-12) | C | **R** | C | C |
| 1.16 | New AIS technology | 360 (WRC-12) | C | **R** |  |  |
| 1.17 | Actions to support WAIC | 423 (WRC-12) | C | **R** | C |  |
| 1.18 | Allocation to RLS for Automotive Radar | 654 (WRC-12)  (invites i & ii) => (invites iii) => | **R** | **R** |  |  |
| 7 | Satellite procedural issues | 86 (Rev.WRC-07) | C |  |  |  |
| 9.1.1 | Protection of MSS in 406-406.1MHz | 205 (Rev.WRC-12) | C | C | C |  |
| 9.1.6 | Definitions for FS/MS stations | 957 (WRC-12) | C |  | C | C |
| 9.1.8 | Nano/pico-satellites issues | 757 (WRC-12) | I |  |  |  |

*Legend:*

**R** = Responsible group

C = Contributing group

I = Interested group

Please refer to the [CPM web page](http://www.itu.int/ITU-R/index.asp?category=study-groups&link=rcpm&lang=en) for additional information, in particular:

* [ITU-R Preparatory Studies for WRC-15](http://www.itu.int/ITU-R/index.asp?category=study-groups&rlink=rcpm-wrc-15-studies&lang=en)
* [Proposed detailed structure of the Draft CPM Report to WRC-15](http://www.itu.int/oth/R0A0A000006/en)

# **4** **Working Party 5A Contacts for liaison and collaboration with other organizations under Resolution ITU-R 9-4**



List of acronyms and abbreviations

|  |
| --- |
| AHF Accessibility and Human Factors  APCO [Associated Public Safety Communications Officials](http://www.apco911.org/)  ARIB [Association of Radio Industries and Businesses](http://www.arib.or.jp/english/)  ATIS [Alliance for Telecommunications Industry Solutions](http://www.atis.org/)  AWG [Asia-Pacific Telecommunity Wireless Group](http://www.aptsec.org/APTAWG)  BAPCO [British Association of Public Safety Communications Officers](http://www.bapco.org.uk/)  BBF [Broadband Forum](http://www.broadband-forum.org/)  CCSA [China Communications Standards Association](http://www.ccsa.org.cn/english/)  CDG [CDMA Development Group](http://www.cdg.org/)  EHIMA European Hearing Instrument Manufacturers Association  EMTEL [Emergency Communications (ETSI)](http://www.emtel.etsi.org/)  ERM [Electromagnetic compatibility and Radio spectrum Matters](http://portal.etsi.org/portal/server.pt/community/ERM/306?tbId=286)  ETNO [European Telecommunications Network Operators' Association](http://www.etno.eu/)  ETSI [European Telecommunications Standards Institute](http://www.etsi.org/)  IEEE [Institute of Electrical and Electronics Engineers](http://www.ieee.org/)  IETF [Internet Engineering Task Force](http://www.ietf.org/)  ISACC [ICT Standards Advisory Council of Canada](http://www.isacc.ca/isacc/english/)  ITU IRG-AVQA Intersector Rapporteur Group Audiovisual Quality Assessment  ITU JCA-AHF Joint Coordination Activity on Accessibility and Human Factors  MEF [Metro Ethernet Forum](http://metroethernetforum.org/)  MGWS Multi Gigabit Wireless Systems  OASIS [Organization for the Advancement of Structured Information Standards](http://www.oasis-open.org/)  PPDR Public Protection and Disaster Relief  QoS Quality of Service  TETRA [Terrestrial Trunked Radio](http://portal.etsi.org/portal/server.pt/community/TETRA/338)  TGSRR [Task Group Automotive and Surveillance Radar](http://portal.etsi.org/erm/ERMtgSRR_ToR.asp)  TIA [Telecommunications Industry Association](http://www.tiaonline.org/)  TTA [Telecommunications Technology Association](http://www.tta.or.kr/English/)  TTC [The Telecommunication Technology Committee](http://www.ttc.or.jp/e/)  WASN Wireless Access Sensor Networks  WGA [Wireless Gigabit Alliance](http://wirelessgigabitalliance.org/)  WWRF [Wireless World Research Forum](http://www.wireless-world-research.org/)  XGP [eXtended Global Platform](http://www.xgpforum.com/) |

# 5 Procedure and guidelines for the development of the land mobile Handbook

## 5.1 Guidelines on text for the Handbook[[3]](#footnote-3)

– Text to contain the latest information on the topic.

– Text to cover an agreed item on the list of contents and in accordance with an agreed outline.

– Text to provide and update technical and related information as it becomes available on specific systems which should be described on their own individual merits.

– The purpose of the text is to allow the readers of the Handbook to make their own judgement and to reach their own conclusions in accordance with their specific requirements.

– It is assumed that the reader of the Handbook has some engineering background but is not necessarily a specialist.

## 5.2 Mandate and responsibility of the land mobile Handbook Group

– The land mobile Handbook Group under the direction of the Rapporteur is instructed to prepare, revise and approve text for the land mobile Handbook in accordance with an agreed list of contents and should report to Working Party 5A on the progress on the development of the land mobile Handbook.

– Members represented in the land mobile Handbook Group are responsible for coordinating the text and its review within their own administration, if necessary.

## 5.3 Method of work of the land mobile Handbook Group

– All contributions should be sent to the Rapporteur and the responsible Editor along with a clear indication of the source.

– The land mobile Handbook Group will carry its work mainly by correspondence (reflector address[[4]](#footnote-4): [rwp5a-lmhbook@itu.int](mailto:rwp5a-lmhbook@itu.int)) and a meeting may be convened, if necessary.

– Text is maintained and updated in a designated directory on ITU TIES. The Rapporteur is the authorized person to post and update the text on TIES.

– Members of the land mobile Handbook Group are informed via e-mail on the status of the text when changes are made and are requested to review and provide comments on new or revised texts; it is their responsibility to extract the material from the designated TIES directory.

– Comments concerning posted texts are to be compiled by the Rapporteur and posted in the designated directory on TIES.

– The land mobile Handbook Group can decide on the approval of agreed texts and, following consultation with the Chairman of Working Party 5A, decide on their publication.

# 6 Electronic working methods

## 6.1 Overview of electronic facilities used by Working Party 5A

To make full use of the ITU electronic facilities you need a TIES user id and password. If you do not have a TIES ID, please read: <http://www.itu.int/TIES/registration/index.html> to determine whether you are eligible and then submit your registration form to: [ties.registration@itu.int](mailto:ties.registration@itu.int).

For further information about the ITU-R electronic facilities, please consult:  
<http://www.itu.int/ITU-R/go/e-facilities>

The electronic facilities used by Working Party 5A are as follows:

***E-mail reflectors*** *(mailing lists):* Used to send messages to all those that have subscribed to the reflector. Large file attachments are discouraged. See [Section 6.2](#s62).

***FTP****:* For file exchange. See [Section 6.3](#s63).

***Electronic Forums****:* These are web-based discussion areas. You need to go to the Forum website to see and participate in the discussions. You can “subscribe” to watch particular topics, so that you are alerted by e-mail of any new discussions on those topics. A test Forum facility has been set up; See [Section 6.4](#s64).

***RSS Feed:*** An RSS feed exists for Working Party 5A documentation, which offers an easy way to be kept updated automatically on recent documents posted. See [Section 6.5](#s65).

## 6.2 E-mail reflectors

TIES e-mail reflectors have been created for various working groups to work by correspondence between meetings of Working Party 5A. The following Working Party 5A reflectors are maintained (see also section 6.5 for the WP 5A correspondence group(s) using the new sharepoint facility):

|  |  |  |
| --- | --- | --- |
| ***Reflector address*** | ***Subject*** | ***Available Archived Messages*** |
| [*rwp5a@itu.int*](mailto:rwp5a@itu.int) | *General* | [*Archive*](http://ties.itu.int/listarchives/rwp5a) |
| [*rwp5a-wg4@itu.int*](mailto:rwp5a-wg4@itu.int) | *Interference and sharing (Note: Inactive)* | [*Archive*](http://ties.itu.int/listarchives/rwp5a-wg4) |
| [*rwp5a-5c-jcg@itu.int*](mailto:rwp5a-5c-jcg@itu.int) | *Note: Disbanded on 28 November 2013 because WP 5C will continue this work in the fixed service only.* | [*Archive*](http://ties.itu.int/listarchives/rwp5a-5c-jcg) |
| [*rwp5a-lmhbook@itu.int*](mailto:rwp5a-lmhbook@itu.int) | *Land Mobile Handbook (Note: Inactive)* | [*Archive*](http://ties.itu.int/listarchives/rwp5a-lmhbook) |

When you send an email to one of the above e-mail reflector addresses, your message is automatically forwarded to all those who have subscribed to that e-mail reflector. You must be subscribed to an e-mail reflector to be able to send messages to it.

To manage your e-mail reflector subscriptions, login to your TIES account:  
<http://www.itu.int/tiesutils/asp/login.asp>

You will then see the TIES home page. In the first column, under “Account options” click on “Subscribe / Unsubscribe to mailing lists”. You will then see a page showing which mailing lists (email reflectors) you are already subscribed to, and below that, which mailing lists you can request subscription to.

**To subscribe** to a list, scroll down the page to find “Mailing lists for itu-r:sg5” Click on the box(es) next to the list(s) that you want to subscribe to.

Scroll back up to “Request Subscription to mailing lists”, where it says “Subscribe <your email address>”. If you want to use a different email address, fill in the box next to this. Then click on the “Subscribe” button. Allow a day or two for your request to be processed. You will receive an email advising you once your request is approved.

Once subscribed, in the part of the web page showing which mailing lists you're subscribed to, you will also be able to see who else is subscribed to each list (“Members”) and have access to an archive of emails previously sent to each list (“Archive”). You are also automatically granted access to the associated ftp site.

**To unsubscribe** from a list, simply click the check-box(es) on the right hand side of the page corresponding to the list(s) that you want to unsubscribe from, then click the “Unsubscribe” button.

## 6.3 FTP

To be able to access the Working Party 5A FTP site, you need to have a TIES ID and Password and be subscribed to at least one of the e-mail reflectors in SG 5. If, after your subscription to the reflector has been approved, you are still unable to access the Working Party 5A FTP site, please send an e-mail to [brweb@itu.int](mailto:brweb@itu.int) and provide your TIES username and the name of the mailing list you have subscribed to.

The WP 5A FTP directory can be accessed either via World Wide Web (WWW) at <http://ties.itu.int/u/itu-r/ede/rsg5/rwp5a/> or via File Transfer Protocol (FTP) ITU servers.

For accessing the ITU FTP server, use FTP communication software with the host address as *ftp.itu.int* or *ties.itu.int* using your TIES ID and Password. Then change the directory to the following: */u/itu-r/ede/rsg5/rwp5a*.

For further information about the FTP activities of Working Party 5A in a specific area please see the README file in the corresponding folder. The Working Group Chairman and Rapporteurs are kindly requested to create the README files as required; please make sure a contact point is included in the README file.

## 6.4 Electronic Forums

A test Forum facility has been set up at <http://groups.itu.int/rsg5-forum>. At this stage, there are no WP 5A correspondence groups using this facility.

## 6.5 Sharepoint meetings site

A sharepoint meetings site has been set up for these meetings. The site provides “Share Folders” for informal document exchange amongst participants. Links to other ITU-R documents and resources are also provided.

To access the sharepoint meetings site, go to: <https://extranet.itu.int/rsg-meetings>

then login as:

**Username:** <your TIES username>

**Password:** <your TIES password>

The sharepoint meetings site is also used for the work of correspondence groups. Persons who wish to join a Correspondence Group can request to join the group by clicking on “Join this community”.

Group members can upload documents, change uploaded documents, post announcements and discussion items or reply to them. All TIES users can download documents, read the discussions and announcements, but they cannot make any changes.

Members are reminded to ensure that they have configured a valid forwarding e-mail address in their TIES account as the system sends all messages to their TIES e-mail address only. The TIES profile can be updated at <http://ties.itu.int>.

Once members have been accepted to the group they would need to link the team discussion list to their e-mail client by clicking on the item, “Team discussions”, then on the menu item “List” on the new page and then by clicking on the item “Connect to Outlook”. The discussion board will be added as a Sharepoint list item in your Outlook mail client (or a client that is compatible with sharepoint). You can then post articles directly to the discussion board and reply to items others have posted. Attachments to individual posts are also possible.

Currently, WP 5A has set up the following correspondence groups using sharepoint:

|  |  |
| --- | --- |
| **Status** | **Closed** |
| Denomination: | [CG-PPDR-Report-N-W](https://extranet.itu.int/rsg-meetings/sg5/wp5a/cg-ppdr-report-n-w/) |
| Sharepoint URL: | <https://extranet.itu.int/rsg-meetings/sg5/wp5a/cg-ppdr-report-n-w/> |
| Subject: | Correspondence Group on N+W parts of the Report ITU-R M.[PPDR] |
| Convenor: | Mr. Karsten Buckwitz (e-mail: [karsten.buckwitz@ties.itu.int](mailto:karsten.buckwitz@ties.itu.int)) |
| Terms of Reference: | See [Annex 3](https://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0421!N03!MSW-E) to [Doc. 5A/421](http://www.itu.int/md/R12-WP5A-C-0421/en) |

|  |  |
| --- | --- |
| **Status** | **Active** |
| Denomination: | LC |
| Sharepoint URL: | <https://extranet.itu.int/rsg-meetings/sg5/wp5a/lc/> |
| Subject: | Correspondence Group on local coverage |
| Convenor: | Mr. Satoshi Imata (e-mail: [sa-imata@kddi.com](mailto:sa-imata@kddi.com)) |
| Terms of Reference: | See [Annex 3](https://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0543!N03!MSW-E) to [Doc. 5A/543](http://www.itu.int/md/R12-WP5A-C-0543/en) |

|  |  |
| --- | --- |
| **Status** | **Active** |
| Denomination: | PPDR |
| Sharepoint URL: | <https://extranet.itu.int/rsg-meetings/sg5/wp5a/cg-ppdr/> |
| Subject: | Correspondence Group on Report PPDR |
| Convenor: | Mr. Karsten Buckwitz (e-mail: [karsten.buckwitz@ties.itu.int](mailto:karsten.buckwitz@ties.itu.int)) |
| Terms of Reference: | See [Annex 3](https://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0543!N03!MSW-E) to [Doc. 5A/543](http://www.itu.int/md/R12-WP5A-C-0543/en) |

## 6.6 RSS Feed

ITU offers an RSS feed (or channel) for Working Party 5A documentation. RSS (which stands for Really Simple Syndication) is an easy way to be kept updated automatically on websites of interest.

The RSS feed for Working Party 5A is:  
<http://www.itu.int/dms_pages/itu-r/md/07/wp5a/R07-WP5A-RSS.xml>

In general you need to get hold of a program called a News Reader. This displays RSS information feeds from your chosen websites on your computer. All you then have to do is choose which RSS feeds you want: for instance, an RSS feed of all the latest Meeting Documents of a specific ITU Study Group.

There are a range of different News Readers available, many of which are free to install. Some popular free feed readers include [FeedReader](http://www.feedreader.com/) (Windows), and [Amphetadesk](http://www.disobey.com/amphetadesk/) (Linux, Mac, Windows).

For further information on RSS: <http://www.itu.int/md/rss_feed.htm> and <http://www.whatisrss.com/>.

1. Based on [Document 5/1(Rev.1)](http://www.itu.int/md/R12-SG05-C-0001/en). [↑](#footnote-ref-1)
2. <http://www.itu.int/md/R00-CA-CIR-0013/en> [↑](#footnote-ref-2)
3. Note also the applicable ITU-R Resolutions, in particular [Res. ITU-R 12-1](http://www.itu.int/publ/R-RES-R.12/en), as well as the definition of “Handbook” in Section 6.1.7 of [Res. ITU-R 1-6](http://www.itu.int/publ/R-RES-R.1/en). [↑](#footnote-ref-3)
4. Note: Since the fifth meeting of WP 5A alternative working methods to progress the Land Mobile Handbook have been used due to the lack of participation in the reflector; refer to Section 6 of Doc. 5A/513 (Study Period 2008-2012). [↑](#footnote-ref-4)