|  |  |  |
| --- | --- | --- |
|  | **Radiocommunication Study Groups** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
|  |  |
| Source: Annex 1 to Document [5A/114](http://www.itu.int/md/R15-WP5A-C-0114/en) | **Annex 1 toDocument 5A/298-E** |
| **30 November 2016** |
| **English only** |
| Annex 1 to Working Party 5A Chairman’s Report |
| WORKING PARTY 5A MANAGEMENT |
|  |

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

*Useful links:*

|  |  |
| --- | --- |
| Free online access to ITU-R Publications, Software and Databases: | <http://www.itu.int/oth/R040200003C/en> |
| Search ITU Publications:  | <http://www.itu.int/en/publications/Pages/Search.aspx> |

## 1.1 Questions

| **Question No.** | **Title** | **Category** | **Appr. Year** | **Last-Cont** | **Target-year** | **WG 5A-** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [1-6/5](http://www.itu.int/pub/R-QUE-SG05.1)  | Interference protection ratios and minimum field strengths required in the land mobile services | S2 | 2015 | 2015 | 2019 | 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 | 2012 | 2015 | 2019 | 4 | *Note 1* |
| [37-6/5](http://www.itu.int/pub/R-QUE-SG05.37)  | Digital land mobile systems for specific applications | S2 | 2012 | 2015 | 2019 | 2, 3 | *Note 1* |
| [48-7/5](http://www.itu.int/pub/R-QUE-SG05.48)  | Techniques and frequency usage in the amateur service and amateur-satellite service | S2 | 2015 | 2015 | 2019 | 1 |  |
| [101-4/5](http://www.itu.int/pub/R-QUE-SG05.101)  | Quality of service requirements in the land mobile service | S2 | 2007 | 2015 | 2019 | 2 | *Note 1* |
| [205-5/5](http://www.itu.int/pub/R-QUE-SG05.205)  | Intelligent transport systems | S2 | 2012 | 2015 | 2019 | 5 | *Note 1* |
| [209-5/5](http://www.itu.int/pub/R-QUE-SG05.209) | Use of the mobile, amateur and amateur satellite services in support of disaster radiocommunications | S2 | 2015 | 2015 | 2019 | 1, 3 | *Also assigned to WP 5D.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 | 2012 | 2015 | 2019 | 2, 4 | *Note 1* |
| [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 | 2012 | 2015 | 2019 | 2, 4 | *Note 1* |
| [238-2/5](http://www.itu.int/pub/R-QUE-SG05.238)  | Mobile broadband wireless access systems | S2 | 2012 | 2015 | 2019 | 2, 4 | *Note 1* |
| [241-3/5](http://www.itu.int/pub/R-QUE-SG05.241)  | Cognitive radio systems in the mobile service | S2 | 2015 | 2015 | 2019 | 5 |  |
| [242-2/5](http://www.itu.int/pub/R-QUE-SG05.242) | Reference radiation patterns of omnidirectional and sectoral antennas for the fixed and mobile services for use in sharing studies | S2 | 2015 | 2015 | 2019 | 4 | *Also assigned to WPs 5C and 5D.Jointly developed by WP 5A and WP 5C*  |
| [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 | 2012 | 2015 | 2019 | 5 | *Note 1* |
| [254/5](http://www.itu.int/pub/R-QUE-SG05.254) | Operation of short-range radiocommunication public access system supporting hearing aid systems | S2 | 2014 | 2015 | 2019 | 2 | *Note 1* |
| [256/5](http://www.itu.int/pub/R-QUE-SG05.256) | Technical and operational characteristics of the land mobile service in the frequency range 275-1 000 GHz | S2 | 2015 | 2015 | 2019 | 5 |  |

*Note 1.* *Editorially updated by SG 5 in July 2015*

## 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 22 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. Joint responsibility assigned by SG 5 Nov. 2008**Scope added editorially by SG 5 on 19 Nov. 12* | 30 Jul 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)*).* | 30 Jul 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 | *Joint responsibility assigned by SG 5 Nov. 2008**Editorially updated by SG 5 on 3 Dec. 13* | 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 02 May 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 | *Joint responsibility assigned by SG 5 Nov. 2008.**Editorially updated by SG5 on 19 Nov. 12* | 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 | *Joint responsibility assigned by SG 5 Nov. 2008. Editorially updated by SG 5 December 2009* | 25 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) | 6 | 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 30 Sep 2015 | 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 | *Should be suppressed* | 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 | *Scope added editorially by SG 5 Feb. 2008* | 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 | *Scope added editorially by SG 5 Feb. 2008* | 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) | 1 | Wireless communication systems for persons with impaired hearing |  | 2-Feb-15 | 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 29 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 |  | 22 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 29 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) | 4 | 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 |  | 30 Sep 2015 | 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 for the fixed and mobile services for use in sharing studies in the frequency range from 400 MHz to about 70 GHz | *Joint responsibility assigned by SG 5 Nov. 2008* | 18 Feb 14 | 5A/5C | 4 | 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 |  | 02 May 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 |  | 25 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* | 06 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 |  | 25 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 | *Joint responsibility assigned by SG 5 Nov. 2008. Scope added editorially by SG 5 May 2009* | 25 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 | *To be jointly approved by SGs 4 and 5. Scope added editorially by SG 5 Feb. 2008* | 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 | *Scope added editorially by SG 5 May 2009* | 05 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 |  | 05 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 |  | 22 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 |  | 05 May 00 | 5A | 2 | 12 |
| Rec | F | [1509](http://www.itu.int/rec/R-REC-F.1509/en) | 3 | 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.*  | 30 Sep 2015 | 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 | *Joint responsibility assigned by SG 5 Nov. 2008. Editorially updated by SG 5 December 2009* | 02 May 01 | 5A/5C | 2 | 12 |
| Rec | M | [1544](http://www.itu.int/rec/R-REC-M.1544/en) | 1 | Minimum qualifications of radio amateurs |  | 30 Sep 15 | 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 | *Editorial update agreed during May 2009 SG 5 meeting* | 25 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 29 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 (FWA) 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* | 26 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 | *Scope added editorially by SG 5 Feb. 2008* | 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 resolves 8 of Resolution 229. Annex 1 is 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 the 5 460-5 725 MHz range | *Scope added editorially by SG 5 Feb. 2008* | 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 03 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 | *Joint responsibility assigned by SG 5 Nov. 2008. Scope added editorially by SG 5 May 2009* | 01 Jan 04 | 5A/5C | 2 | 12 |
| Rec | M | [1677](http://www.itu.int/rec/R-REC-M.1677) | 1 | International Morse code |  | 03 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 24 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. | *Draft revision submitted to SG 5* | 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 | *Joint responsibility assigned by SG 5 Nov. 2008* | 03 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 |  *Joint responsibility assigned by SG 5 Nov. 2008* | 27 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 |  | 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) | 1 | 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 |  | 2-Feb-15 | 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) | 1 | Multiple-Gigabit wireless systems in frequencies around 60 GHz | *Being revised by WP 5A* | 27-Jan-15 | 5A | 2 | 12 |
| Rec | M | [2009](http://www.itu.int/rec/R-REC-M.2009/en) | 1 | 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-12) |  | 2-Feb-15 | 5A | 3 | 7 |
| Rep | M | [2014](http://www.itu.int/publ/R-REP-M.2014) | 2 | Digital land mobile systems for dispatch traffic | *Draft revision submitted to SG 5* | 19 Nov 12 | 5A | 2 | 11 |
| Rec | M | [2015](http://www.itu.int/rec/R-REC-M.2015/en) | 1 | Frequency arrangements for public protection and disaster relief radiocommunication systems in UHF bands in accordance with Resolution 646 (WRC-03) | *Being revised by WP 5A* | 2-Feb-15 | 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 | *Joint responsibility assigned by SG 5 Nov. 2016* | 18 Feb 14 | 5A / 5B | 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 |
| Rec | M | [2068](http://www.itu.int/rec/R-REC-M.2068/en) | 0 | Characteristics of and protection criteria for systems operating in the mobile service in the frequency range 14.5-15.35 GHz |  | 2-Feb-15 | 5A | 4 | 9 |
| Rec | M | [2084](http://www.itu.int/rec/R-REC-M.2084/en) | 0 | Radio interface standards of vehicle-to-vehicle and vehicle-to-infrastructure communications for Intelligent Transport System applications |  | 30 Sep 2015 | 5A | 5 | 3 |
| 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 |  | 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 |  | 23 Nov 11 | 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 11 | 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 11 | 5A | 1 | A |
| Rep | M | [2227](http://www.itu.int/publ/R-REP-M.2227) | 1 | Multiple Gigabit wireless systems in frequencies around 60 GHz | *Being revised by WP 5A* | 11 Nov 14 | 5A | 2 | 12 |
| Rep | M | [2228](http://www.itu.int/publ/R-REP-M.2228) | 1 | Advanced intelligent transport systems (ITS) radiocommunications |  | 21 Jul 15 | 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 |
| Rep | M | [2330](http://www.itu.int/publ/R-REP-M.2330) | 0 | Cognitive radio systems in the land mobile service |  | 11 Nov 14 | 5A | 5 | 10 |
| Rep | M | [2335](http://www.itu.int/publ/R-REP-M.2335) | 0 | Sharing and compatibility analysis of possible amateur service stations with fixed, land mobile, and radiolocation services in the frequency band 5 250‑5 450 kHz and the aeronautical mobile service in an adjacent band |  | 11-Nov-2014 | 5A | 1 | A |
| Rep | M | [2377](http://www.itu.int/publ/R-REP-M.2377) | 0 | Radiocommunication objectives and requirements for Public Protection and Disaster Relief (PPDR) |  | 21 Jul 15 | 5A | 3 | 7 |
| Rep | M | [2378](http://www.itu.int/pub/R-REP-M.2378) | 0 | Operational guidelines for the deployment of broadband wireless access systems for local coverage operating below 6 GHz |  | 21 Jul 15 | 5A | 2 | 12 |

## 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**See NOTE 1* | 20 Mar 00 | 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 | *See NOTE 1* | 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 | *See NOTE 1* | 13 Apr. 05 | 5A | 2 | 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 | *See NOTE 1* | 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 | *See NOTE 1* | 17 Nov. 10 | 5A | 2 | 12 |
| Handbook | [**52**](http://www.itu.int/publ/R-HDB-52) | 1 | Amateur service and amateur-satellite service Handbook | *See NOTE 1* | *22 Nov 2013* | 5A | 1 | A |
| Res. ITU-R [55-2](http://www.itu.int/pub/R-RES-R.55) | ITU studies of disaster prediction, detection, mitigation and relief | *See NOTE 2* | 30 Oct 15 | 5A, 5C | 3 |  |
| Res. ITU-R [58-1](http://www.itu.int/pub/R-RES-R.58) | Studies on the implementation and use of cognitive radio systems | *See NOTE 2* | 30 Oct 15 | 5A, 5D | 5 |  |
| Res. ITU-R [60-1](http://www.itu.int/pub/R-RES-R.60) | Reduction of energy consumption for environmental protection and mitigating climate change by use of ICT/radiocommunication technologies and systems | *See NOTE 2* | 30 Oct 15 | 5A, 5B, 5C, 5D | 2 |  |
| Res. ITU-R [62-1](http://www.itu.int/pub/R-RES-R.62) | Studies related to testing for conformance with ITU R Recommendations and interoperability of radiocommunication equipment and systems | *See NOTE 2* | 20 Jan 12 | 5A, 5B, 5C, 5D | 2 |  |
| Res. ITU-R [66](http://www.itu.int/pub/R-RES-R.66) | Studies related to wireless systems and applications for the development of the Internet of Things (IoT) |  | 30 Oct 15 | SG 6, 5A, 5D | 5 |  |
| Res. ITU-R [67](http://www.itu.int/pub/R-RES-R.67) | Telecommunication/ICT accessibility for persons with disabilities and persons with specific needs |  | 30 Oct 15 | 5A | 2 |  |
| [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 |  | 2012 | 5A | 2 | 9, 12 |
| [Res. 646 (Rev.WRC-15)](http://www.itu.int/oth/R0A0600001A/en) | Public protection and disaster relief |  | 2015 | 5A | 3 | 7 |
| [Res. 647 (Rev.WRC-15)](http://www.itu.int/oth/R0A0600001B/en) | Spectrum management guidelines for emergency and disaster relief radiocommunication |  | 2015 | 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, 5B, 5C, 5D | 4 | 4 |
| Recommendation 34 (WRC-12) | Principles for the allocation of frequency bands |  | 2012 | 5A, 5B, 5C, 5D | 2 |  |

NOTE 1 – Study Group 5 has delegated, for the entire study period, the approval of Handbooks to its Working Parties in accordance with § 2.3 of ITU-R Resolution 1.

NOTE 2 – The studies under this Resolution relate also to the scope of other Study Groups.

# 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 the questions assigned;

3) carry out work program resulting from the first Conference Preparatory Meeting (CPM19-1) for WRC-19 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 must 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 WP 5A;

12) conduct work on vocabulary in accordance with Resolutions ITU-R [34-4](http://www.itu.int/pub/R-RES-R.34), [35-4](http://www.itu.int/pub/R-RES-R.35) and [36‑4](http://www.itu.int/pub/R-RES-R.36), 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 assigned to the working group, list of areas requiring future contributions, and proposed changes of 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 1.1 ([Res. 658 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0001PDFE.pdf));[Q. 48-7](http://www.itu.int/publ/R-QUE-SG05.48/en); [Q. 209-5](http://www.itu.int/pub/R-QUE-SG05.209/en) (Amateur aspects only) | Dale Hughes, Australia |
| WG 5A-2 | Systems and standards | AI 1.11 ([Res. 236 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0012PDFE.pdf))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 | [Res. 646 (Rev.WRC‑15)](http://www.itu.int/oth/R0A0600001A/en), [Res. 647 (Rev.WRC-15)](http://www.itu.int/oth/R0A0600001B/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. 209-5](http://www.itu.int/pub/R-QUE-SG05.209/en) (Mobile aspects only) | Amy Sanders, USA |
| WG 5A-4 | Interference and sharing | AI 1.16 ([Res. 239 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0017PDFE.pdf)); AI 9.1, Issue 9.1.5 ([Res. 764 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0023PDFE.pdf)); [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. 1-6](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);Antennas: [Q. 242-2](http://www.itu.int/pub/R-QUE-SG05.242) | Michael Kraemer, Germany |
| WG 5A-5 | New technologies | ITS: AI 1.12 ([Res. 237 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0013PDFE.pdf)); [Q 205-5](http://www.itu.int/pub/R-QUE-SG05.205/en);CRS: [Res. 58](http://www.itu.int/publ/R-RES-R.58/en); Rec. 76 (WRC-12); [Q. 241-3](http://www.itu.int/pub/R-QUE-SG05.241/en);WASN: [Q. 250-1](http://www.itu.int/pub/R-QUE-SG05.250); >275 GHz: [Q. 256](http://www.itu.int/pub/R-QUE-SG05.256) | Hitoshi Yoshino, Japan |

| Liaison Rapporteurs\* | Topic |
| --- | --- |
| Gabrielle Owen, The Netherlands | Report on relevant activities in certain countries in Region 1 |
| Jonathan Siverling, 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) |
| Haim Mazar | Report on CENELEC matters |
| \* See section A1.6.1.2 of [Resolution ITU-R 1-7](http://www.itu.int/pub/R-RES-R.1-7-2015). |

|  |  |  |
| --- | --- | --- |
| 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) |
| Brennan Price, USA | Vocabulary | [Res. 34-4](http://www.itu.int/pub/R-RES-R.34/en), [Res. 35-4](http://www.itu.int/pub/R-RES-R.35/en), [Res. 36-4](http://www.itu.int/pub/R-RES-R.36/en) |
| \*\* See section A1.3.2.6 of [Resolution ITU-R 1-7](http://www.itu.int/pub/R-RES-R.1-7-2015). |

## 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>.

In accordance with the decisions of the Radiocommunication Assembly there is a mandatory common [format](http://www.itu.int/oth/R0A0E000097) for new and revised ITU-R Recommendations (cf. section A1.6.2.2 of [Resolution ITU-R 1-7](http://www.itu.int/pub/R-RES-R.1)); WP 5A will need to verify that draft new and revised ITU-R Recommendations are in accordance with the prescribed “[Format of ITU-R Recommendations](http://www.itu.int/dms_pub/itu-r/oth/0a/0E/R0A0E0000970001MSWE.docx)”.

## 2.4 Schedule of sessions during the seventeenth meeting



# 3 Preparatory work for WRC-19

Refer to [Resolution ITU-R 2-7](http://www.itu.int/pub/R-RES-R.2) (2015) “Conference Preparatory Meeting”. CPM19-1 identified WP 5A as a responsible group or concerned group for a number of WRC-19 agenda items, refer to Circular Letter [CA/226](http://www.itu.int/md/R00-CA-CIR-0226/en).

WP 5A has responsibility for four WRC-19 agenda items and one issue, as the work progresses it will captured in annexes to the WP 5A Chairman’s Report as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Agenda item/Issue** | **Topic** | **Resolution** | **Preliminary draft CPM text** | **Work plan** |
| 1.1 | Allocation of 50-54 MHz to the amateur service in Region 1  | [658 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0001PDFE.pdf) | Annex 4 | Annex 5 |
| 1.11 | Railway radiocommunication systems | [236 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0012PDFE.pdf) | Annex 6 | Annex 7 |
| 1.12 | Intelligent Transport Systems (ITS) | [237 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0013PDFE.pdf) | Annex 8 | Annex 9 |
| 1.16 | WAS/RLAN between 5 150 & 5 925 MHz | [239 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0017PDFE.pdf) | Annex 10 | Annex 11 |
| /9.1.5 | Recs. ITU-R M.1638-1 and ITU-R M.1849-1 in Nos. **5.447F** and **5.450A** | [764 (WRC-15)](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0023PDFE.pdf) | Annex 12 | Annex 13 |

These annex numbers will be maintained from meeting to meeting until the work is completed. The annexes with the work plan will be converted to reports of the work undertaken when the work is completed (i.e., prior to CPM-19-2). The full list of WRC-19 agenda items follows:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Agenda item/ Issue** | **Topic** | **Resolution** | **WP 5A** | **WP 5B** | **WP 5C** | **WP 5D** | **TG 5/1** |
| 1.1 | Allocation of 50-54 MHz to the amateur service in Region 1  | **658 [COM6/6] (WRC-15)** | **R** | C | C |  |  |
| 1.2 | MSS, MetSatS and EESS in 401-403 and 399.9-400.05 MHz | **765 [COM6/7] (WRC-15)** | C |  |  |  |  |
| 1.3 | MetSatS, ESSS in 460-470 MHz | **766 [COM6/8] (WRC-15)** | C |  |  | C |  |
| 1.4 | Annex 7 to Appendix 30 | **557 [COM6/9] (WRC-15)** |  |  |  |  |  |
| 1.5 | Use of 17.7-19.7 & 27.5-29.5 GHz in FSS | **158 [COM6/17] (WRC-15)** | C |  | C | I |  |
| 1.6 | Non-GSO FSS in 37.5-39.5, 39.5-42.5, 47.2-50.2, and 50.4-51.4 GHz | **159 [COM6/18] (WRC-15)** | C | C | C | C |  |
| 1.7 | Spectrum for telemetry, tracking and command with non-GSO satellites | **659 [COM6/19] (WRC-15)** | C | C | C |  |  |
| 1.8 | GMDSS modernization | **359 (Rev.WRC-15)** | I | **R** |  |  |  |
| /1.9.1 | 156-162.05 MHz for autonomous maritime radio devices to protect GMDSS & AIS | **362 [COM6/10] (WRC-15)** | C | **R** | C |  |  |
| /1.9.2 | New VDES satellite component in MMSS | **360 (Rev.WRC-15)** | C | **R** | C |  |  |
| 1.10 | Introduction and use of GADSS | **426 [COM6/11] (WRC-15)** | C | **R** | C | C |  |
| 1.11 | Railway radiocommunication systems | **236 [COM6/12] (WRC-15)** | **R** | C | C | C |  |
| 1.12 | Intelligent Transport Systems (ITS) | **237 [COM6/13] (WRC-15)** | **R** | C | C | C |  |
| 1.13 | Future development of IMT | **238 [COM6/20] (WRC-15)** | C | C | C | C | **R** |
| 1.14 | HAPS in FS | **160 [COM6/21] (WRC-15)** | C |  | **R** | C |  |
| 1.15 | LMS and FS in 275-450 GHz | **767 [COM6/14] (WRC-15)** | C[[2]](#footnote-2) |  | C1 | I |  |
| 1.16 | WAS/RLAN between 5 150 & 5 925 MHz | **239 [COM6/22] (WRC-15)** | **R** | C | C | I |  |
| /9.1.1 | IMT in 1 885-2 025 & 2 110-2 200 MHz | **212 (Rev.WRC-15)** |  |  |  | **R**[[3]](#footnote-3) |  |
| /9.1.2 | Compatibility of IMT and BSS (sound) in 1 452-1 492 MHz in Regions 1 and 3 | **761 [COM4/7] (WRC-15)** |  |  |  | **R**[[4]](#footnote-4) |  |
| /9.1.3 | New non-GSO systems in 3 700-4 200, 4 500-4 800, 5 925-6 425 & 6 725‑7 025 MHz allocated to FSS | **157 [COM5/6] (WRC-15)** | C |  | C |  |  |
| /9.1.4 | Stations on board sub-orbital vehicles | **763 [COM5/7] (WRC-15)** |  | **R** |  |  |  |
| /9.1.5 | Recs. ITU-R M.1638-1 and ITU-R M.1849-1 in Nos. **5.447F** and **5.450A** | **764 [COM6/1] (WRC-15)** | **R** | C |  |  |  |
| /9.1.6 | WPT for electric vehicles | **958 [COM6/15] (WRC-15)** |  | C |  |  |  |
| /9.1.7 | Uplink transmissions of terminals | **958 [COM6/15] (WRC-15)** |  |  |  |  |  |
| /9.1.8 | Machine-type communications | **958 [COM6/15] (WRC-15)** | C |  |  | **R** |  |
| /9.1.9 | FSS in 51.4-52.4 GHz | **162 [COM6/24] (WRC-15)** | C |  | C | C |  |

*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-19](http://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/wrc-19-studies.aspx)

– [Structure for the draft CPM Report to WRC-19](http://www.itu.int/oth/R0A0A00000A/en).

# 4 Working Party 5A Contacts for liaison and collaboration with other organizations under [Resolution ITU-R 9-5](http://www.itu.int/pub/R-RES-R.9)



List of acronyms and abbreviations

|  |  |
| --- | --- |
| AAR | [Association of American Railroads](http://www.aar.org/) |
| AHF | Accessibility and Human Factors |
| APCO | [Associated Public Safety Communications Officials](http://www.apco911.org/) |
| APT | [Asia-Pacific Telecommunity](http://www.aptsec.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 |
| CCSA | [China Communications Standards Association](http://www.ccsa.org.cn/english/) |
| CDG | CDMA Development Group |
| EHIMA | [European Hearing Instrument Manufacturers Association](http://www.ehima.com/) |
| EMTEL | [Emergency Communications (ETSI)](http://www.emtel.etsi.org/) |
| ERA | [European Railway Agency](http://www.era.europa.eu/) |
| 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/) |
| GSA | [Global mobile Suppliers Association](http://gsacom.com/) |
| GSMA | [GSM Association](http://www.gsma.com/) |
| 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](http://www.itu.int/en/irg/avqa/Pages/default.aspx) |
| ITU JCA-AHF | [Joint Coordination Activity on Accessibility and Human Factors](http://www.itu.int/en/ITU-T/jca/ahf/Pages/default.aspx) |
| 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 |
| RAC | [Railway Association of Canada](http://www.railcan.ca/) |
| TCCE | TETRA and Critical Communications Evolution |
| TETRA | Terrestrial Trunked Radio |
| 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/) |
| UIC | [Union Internationale Des Chemins De Fer](http://www.uic.org/) |
| WASN | Wireless Access Sensor Networks |
| WGA | [Wireless Gigabit Alliance](http://wirelessgigabitalliance.org/) |
| WGET | [Working Group on Emergency Telecommunications](http://www.reliefweb.int/telecoms/intro/wget.html) |
| 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[[5]](#footnote-5)

– 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 submit text to Working Party 5A 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 using the Share Folder facilities.

– 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.

– Delegates interested in participating in the work of the land mobile Handbook Group are invited to contact the Rapporteur.

– 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 propose the agreed text to Working Party 5A for consideration for approval.

# 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.

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).

 ***SharePoint meetings site:*** The site provides “Share Folders” for informal document exchange amongst participants. See [section 6.4](#_6.4_SharePoint_meetings).

 ***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* | *General* | [*Archive*](http://ties.itu.int/listarchives/rwp5a) |
| *rwp5a-wg4@itu.int* | *Interference and sharing (Note: Inactive)* | [*Archive*](http://ties.itu.int/listarchives/rwp5a-wg4)  |
| *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* | *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: SG 5” 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 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 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** | **Active** |
| Denomination: | RSTT |
| SharePoint URL: | <https://extranet.itu.int/rsg-meetings/sg5/wp5a/cg-RSTT/>  |
| Subject: | Correspondence Group on local coverage |
| Convenor: | Ms. Ying XU (CHN) (e-mail: xuying@srrc.org.cn) |
| Terms of Reference: | See [Annex 3](https://www.itu.int/md/dologin_md.asp?lang=en&id=R15-WP5A-C-0298!N03!MSW-E) to [Doc. 5A/298](http://www.itu.int/md/R15-WP5A-C-0298/en) |

|  |  |
| --- | --- |
| Status | Closed |
| Denomination: | LC |
| SharePoint URL: | <https://extranet.itu.int/rsg-meetings/sg5/wp5a/cg-lc/>  |
| Subject: | Correspondence Group on local coverage |
| Convenor: | Mr. Satoshi Imata (e-mail: sa-imata@kddi.com) |
| Terms of Reference: | See [Annex 3](https://www.itu.int/md/dologin_md.asp?lang=en&id=R12-WP5A-C-0636!N03!MSW-E) to [Doc. 5A/636](http://www.itu.int/md/R12-WP5A-C-0636/en) |

|  |  |
| --- | --- |
| Status | Closed |
| 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) |
| 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 | 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) |
| 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) |

## 6.5 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 Doc. [5/1(Rev.1)](http://www.itu.int/md/R15-SG05-C-0001/en). [↑](#footnote-ref-1)
2. WP 5A and WP 5C will undertake studies with respect to the *invite ITU-R* 1 and 2 for applications in the land-mobile and fixed services and submit the initial results to WP 1A by November 2016 and final results of the studies before June 2017. [↑](#footnote-ref-2)
3. WP 4C and WP 5D are jointly responsible. WP 5D is responsible for the studies requested in the invites ITU-R with respect to the terrestrial component of IMT, taking into account the technical and operational characteristics provided by WP 4C. [↑](#footnote-ref-3)
4. WP 4A and WP 5D are jointly responsible. WP 5D is responsible for the studies requested in the resolves to invites ITU-R with respect to the IMT, taking into account the technical and operational characteristics provided by WP 4A. [↑](#footnote-ref-4)
5. 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 A2.8 of [Res. ITU-R 1-7](http://www.itu.int/publ/R-RES-R.1/en). [↑](#footnote-ref-5)