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| C:\Users\ponder\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\BDT-25th_anniversary_2017-Logo_411959-3_transparent.png | **World Telecommunication DevelopmentConference 2017 (WTDC-17)****Buenos Aires, Argentina, 9-20 October 2017** | C:\Users\ponder\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\BDT-25th_anniversary_2017-Logo_411959-1_transparent.png |
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| PLENARY MEETING | **Document WTDC-17/28-E** |
|  | **4 September 2017** |
|  | **Original: English** |
| ATDI |
| Suppression or absolute change of Question 9/2 |
|  |
|  |
| **Priority area:** - Study Group Questions - Resolutions and recommendations**Summary:**ITU-D Question (Q) [9/2](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ09.2&stg=2) is titled ‘Identification of study topics in the ITU-T and ITU-R study groups, which are of particular interest to developing countries’. The Final Report appears as Document [2/489](https://www.itu.int/md/D14-SG02-C-0489/en) of 16 May 2017. There is no need to prepare future Q9/2 Report, to include general information, easily found at ITU website. In addition to its RF planning-tools assisting to developing and least developed countries, contributions to ITU-D Study Groups 1 and 2, ATDI is most active at ITU-R Study Groups 1 (Spectrum Management), 3 (Propagation) and 5 (Terrestrial Services) and ITU-T Study Group (SG) 5 (Environment and circular economy). We couldn’t find a specific WTDC Resolution to ask the study of Q9/2. The only Resolution mentioned in the Q9/2 Report is ‘WTDC Resolution 9 (Rev. Dubai, 2014) on ‘participation of countries, particularly developing countries, in spectrum management’. In [Addendum 3 to Document WTDC-17/24](https://www.itu.int/md/choice_md.asp?id=D14-WTDC17-C-0024!A3!MSW-E&lang=&type=sitems) 22 August 2017, CEPT Member States propose to suppress *resolves* 1 in Resolution 9: to prepare a report within the next study period on national technical, economic and financial approaches to, and challenges of, spectrum management and spectrum monitoring… **Expected results:**1. ATDI proposes to delete Question 9/2.
2. If WTDC-17 maintains *resolves* 1 in WTDC Resolution 9, WTDC may retitle Q 9/2 (or Q 9/1, if Resolution 9 stays in ITU-D SG1). The new title ‘participation of countries, particularly developing countries, in spectrum management’, and change all the text of the Question accordingly; thus, in order to serve framework for the new Report of Resolution 9.

**References:**WTDC-14 [Resolution 9](http://www.itu.int/en/ITU-D/Conferences/WTDC/Documents/D-TDC-WTDC-2014-PDF-E.pdf); ITU-D SG2 [Q 9/2](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ09.2&stg=2); [Addendum 3 to Document WTDC-17/24](https://www.itu.int/md/choice_md.asp?id=D14-WTDC17-C-0024!A3!MSW-E&lang=&type=sitems); [ITU-D Questions](https://www.itu.int/net4/ITU-D/CDS/sg/questions.asp?lg=1&sp=2014). [ITU-R Questions](http://www.itu.int/pub/R-QUE/en); [ITU-R Recommendations](http://www.itu.int/pub/R-REC/en); [ITU-R Reports](http://www.itu.int/pub/R-REP/en), [Handbooks](http://www.itu.int/pub/R-HDB/en). [ITU-T Recommendations](http://www.itu.int/en/ITU-T/publications/Pages/recs.aspx); [ITU-T Handbooks](http://www.itu.int/pub/T-HDB); [ITU-T Questions](http://www.itu.int/en/ITU-T/studygroups/2017-2020/Pages/default.aspx). |

STUDY GROUP 2

**SUP** ATDI/28/1

QUESTION 9/2

Identification of study topics in the ITU‑T and ITU‑R study groups which are
of particular interest to developing countries

**Reasons:** Studies of ITU-T and ITU-R are most relevant to developing countries. It is very difficult to separate between study topics in the ITU-T and ITU-R study groups, which are of particular interest to developing countries and the other study topics. The Annexes detail only the Questions (not Recommendations, Handbooks…) of ITU-R Study Groups 1, 3, 5 and ITU-T Study Group 5, dividing the Questions by those appearing and not in the Report of Q 9/2. ITU-T SG5 serves as an advantageous case: all its ten questions are inserted in the Q9/2 Report.

 ATDI/28/2

**Annexes**

The following three Annexes detail ITU Study Group Questions; the following Tables specify the study Questions of ITU R SG1, SG3, SG5 and ITU-T SG5 . The Questions, that are referred in the Final Question 9/2 Report, are highlighted. The inserted *italic text* adds the relevance of the Question, not inserted in the Report, to Developing Countries (DCs), according to ATDI’s view. Only few Questions are not so relevant to Developing Countries; these Questions are highlighted in turquoise.

Annex 1: Questions of ITU-R SG1

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| [205-2/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.205) | [WP1B](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1B) | Long-term strategies for spectrum utilization   |
| [208-1/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.208) | [WP1B](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1B) | Alternative methods of national spectrum management   |
| [210-3/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.210) | [WP1A](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1A) | Wireless power transmission. *Most relevant also to DCs* |
| [216-1/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.216) | [WP1B](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1B) | Spectrum redeployment as a method of national spectrum management  |
| [221-2/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.221) | [WP1A](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1A) | Compatibility between radiocommunication systems and high data rate telecommunication systems using wired electrical power supply.  *Relevant also to DCs* |
| [222/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.222) | [WP1A](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1A) | Definition of the spectral properties of transmitter emissions. *Relevant also to DCs*  |
| [232/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.232) | [WP1C](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1C) | Methods and techniques used in space radio monitoring.  *Relevant also to DCs* |
| [233-1/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.233) | [WP1C](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1C) | Measurement of spectrum occupancy. *Most relevant also to DCs* |
| [235/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.235) | [WP1C](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1C) | Spectrum monitoring evolution   |
| [236/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.236) | [WP1A](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1A) | Impact on radiocommunication systems from wireless and wired data transmission technologies used for the support of power grid management systems. *Relevant also to DCs*   |
| [237/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.237) | [WP1A](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1A) | Technical and operational characteristics of the active services operating in the range 275-1 000 GHz   |
| [238/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.238) | [WP1A](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1A) | Characteristics for use of visible light for broadband communications   |
| [239/1](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01.239) | [WP1C](http://www.itu.int/pub/R-QUE-SG01/publications.aspx?lang=en&parent=R-QUE-SG01&r_que_group=WP1C) | Electromagnetic field measurements to assess human exposure. *Most relevant also to DCs* (may be not included because the Q was accepted late)   |

Annex 2: Questions of ITU-R SG 3

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| Number | Group | Title |
| [201-6/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.201) | [WP3J](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3J) | Radiometeorological data required for the planning of terrestrial and space communication systems and space research application  |
| [202-4/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.202) | [WP3J](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3J)/[WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | Methods for predicting propagation over the surface of the Earth. *Relevant also to DCs*  |
| [203-7/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.203) | [WP3K](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3K) | Propagation prediction methods for terrestrial broadcasting, fixed (broadband access) and mobile services using frequencies above 30 MHz   |
| [204-6/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.204) | [WP3M](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3M) | Propagation data and prediction methods required for terrestrial line-of-sight systems |
| [205-2/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.205) | [WP3M](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3M) | Propagation data and prediction methods required for trans-horizon systems.  *Relevant also to DCs* |
| [206-4/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.206) | [WP3M](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3M) | Propagation data and prediction methods for fixed- and broadcasting-satellite services. *Relevant also to DCs*  |
| [207-5/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.207) | [WP3M](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3M) | Propagation data and prediction methods for satellite mobile and radiodetermination services above about 0.1GHz. *Relevant also to DCs* |
| [208-5/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.208) | [WP3M](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3M) | Propagation factors in frequency sharing issues affecting space radiocommunication services and terrestrial services   |
| [209-2/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.209) | [WP3J](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3J) | Variability and risk parameters in system performance analysis*Relevant also to DCs*   |
| [211-6/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.211) | [WP3K](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3K) | Propagation data and propagation models in the frequency range 300 MHz to 100 GHz for the design of short-range wireless radiocommunication systems and wireless local area networks (WLAN) |
| [212-3/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.212) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | Ionospheric properties. *Relevant also to DCs.*  |
| [213-4/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.213) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | The short-term forecasting of operational parameters for trans-ionospheric radiocommunication and radionavigation services.*Relevant also to DCs* |
| [214-5/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.214) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | Radio noise. *Relevant also to DCs*   |
| [218-6/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.218) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | Ionospheric influences on satellite systems . *Relevant also to DCs*  |

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| [222-5/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.222) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | Measurements and data banks of ionospheric characteristics and radio noise.   |
| [225-7/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.225) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | The prediction of propagation factors affecting systems at LF and MF including the use of digital modulation techniques.*Relevant also to DCs*  |
| [226-5/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.226) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L)/[WP3M](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3M) | Ionospheric and tropospheric characteristics along satellite-to-satellite paths. *Relevant also to DCs*   |
| [228-2/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.228) | [WP3M](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3M) | Propagation data required for the planning of radiocommunication systems operating above 275 GHz  |
| [229-3/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.229) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | Prediction of sky-wave propagation conditions, signal intensity, circuit performance and reliability at frequencies between about 1.6 and 30 MHz, in particular for systems using digital modulation techniques. *Relevant also to DCs*  |
| [230-3/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.230) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | Prediction methods and models applicable to power line telecommunication systems. *Relevant also to DCs*  |
| [231-1/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.231) | [WP3L](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3L) | The effect of electromagnetic emissions from man-made sources on the radiocommunication systems and networks. *Relevant also to DCs*   |
| [232-1/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.232) | [WP3J](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3J) | The effect of nanostructure materials on propagation   |
| [233-1/3](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03.233) | [WP3M](http://www.itu.int/pub/R-QUE-SG03/publications.aspx?lang=en&parent=R-QUE-SG03&r_que_group=WP3M) | Methods for the prediction of propagation path losses between an airborne platform and a satellite, ground terminal or another airborne platform. *Relevant also to DCs*   |

Annex 3: Questions of ITU-R SG 5

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| [1-6/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.1) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Interference protection ratios and minimum field strengths required in the land mobile services. *Relevant also to DCs* |
| [7-7/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.7) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Characteristics of equipment for the land mobile service between 30 and 6 000 MHz   |
| [37-6/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.37) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Digital land mobile systems for specific applications.*Most relevant also to DCs*   |
| [48-7/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.48) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Techniques and frequency usage in the amateur service and amateur-satellite service |
| [62-2/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.62) | [WP5B](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5B) | Interference to the aeronautical mobile and aeronautical radionavigation services. *Relevant also to DCs*   |
| [77-7/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.77) | [WP5D](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5D) | Consideration of the needs of developing countries in the development and implementation of IMT  |
| [101-4/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.101) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Quality of service requirements in the land mobile service.*Most relevant also to DCs*   |
| [110-3/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.110) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Reference radiation patterns of point-to-point fixed wireless system antennas for use in sharing studies. *Relevant also to DCs*   |
| [205-5/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.205) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Intelligent transport systems. *Most* *Relevant also to DCs*   |
| [209-5/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.209) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A)/[WP5D](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5D) | Use of the mobile, amateur and the amateur-satellite services in support of disaster radiocommunications  |
| [212-4/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.212) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Nomadic wireless access systems including radio local area networks   |
| [215-4/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.215) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Frequency bands, technical characteristics, and operational requirements for fixed wireless access systems in the fixed and/or land mobile services   |
| [229-4/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.229) | [WP5D](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5D) | Further development of the terrestrial component of IMT   |
| [235/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.235) | [WP5B](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5B) | Protection criteria for aeronautical and maritime systems   |
| [238-2/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.238) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Mobile broadband wireless access systems   |
| [241-3/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.241) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A)/[WP5D](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5D) | Cognitive radio systems in the mobile service   |
| [242-2/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.242) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A)/[WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C)/[WP5D](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5D) | Reference radiation patterns of omnidirectional and sectoral antennas for the fixed and mobile services for use in sharing studies. *Relevant also to DCs*   |
| [246/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.246) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Technical characteristics and channelling requirements for adaptive HF systems. *Relevant also to DCs*   |
| [247-1/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.247) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Radio-frequency arrangements for fixed wireless systems   |
| [248/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.248) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Technical and operational characteristics for systems in the fixed service used for disaster mitigation and relief   |
| [250-1/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.250) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | 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   |
| [252/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.252) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Frequency sharing and compatibility between systems in the fixed service and systems in other services. *Relevant also to DCs*   |
| [253/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.253) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Fixed service use and future trends   |
| [254/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.254) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Operation of short-range radiocommunication public access system supporting hearing aid systems. *Relevant also to DCs*   |
| [255/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.255) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Performance and availability objectives and requirements for fixed wireless systems, including packet-based systems. *Relevant also to DCs*  |
| [256/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.256) | [WP5A](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5A) | Technical and operational characteristics of the land mobile service in the frequency range 275-1 000 GHz  |
| [257/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.257) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Technical and operational characteristics of stations in the fixed service in the frequency range 275-1 000 GHz  |
| [258/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.258) | [WP5C](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5C) | Technical and operational principles for HF sky-wave communication stations to improve the man-made noise HF environment   |
| [259/5](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05.259) | [WP5B](http://www.itu.int/pub/R-QUE-SG05/publications.aspx?lang=en&parent=R-QUE-SG05&r_que_group=WP5B) | Operational and radio regulatory aspects for planes operating in the upper level of the atmosphere |

Annex 2: Questions of ITU-T SG 5

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| **Q1/5 (WP1/5):** Protection of information and communication technology (ICT) infrastructure from electromagnetic surges   |
| **Q2/5 (WP1/5):** Equipment resistibility and protective components  |
| **Q3/5 (WP1/5):** Human exposure to electromagnetic fields (EMFs) from information and communication technologies (ICTs)  |
| **Q4/5 (WP1/5):**Electromagnetic compatibility (EMC) issues arising in the telecommunication environment  |
| **Q5/5 (WP1/5):** Security and reliability of information and communication technology (ICT) systems from electromagnetic and particle radiations |
| **Q6/5 (WP2/5):** Achieving energy efficiency and smart energy  |
| **Q7/5 (WP2/5):** Circular economy including e-waste |
| **Q8/5 (PLEN):** Guides and terminology on environment and climate change |
| **Q9/5 (WP2/5):** Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)  |

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