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ASSIGNMENT OF TEXTS TO WORKING PARTY 5D

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ITU-R Questions assigned to WP 5D

Taken from “Assignment of texts to the Study Group 5 Sub-Groups” ([Document 5/1](#), Attachment 1)

Question ITU-R	Title	Category	Approval date	Target date	Comments	WP
77-9/5	Consideration of the needs of developing countries in the development and implementation of IMT	S2	12/12/2023	2027		5D
209-7/5	Use of the mobile, amateur and the amateur satellite services in support of disaster radiocommunications	S2	12/12/2023	2027		5A, 5D
229-6/5	Future development of the terrestrial component of IMT	S2	12/12/2023	2027		5D
241-4/5	Cognitive radio systems in the mobile service	S2	19/11/2019	2027	<i>Editorially updated by SG 5 in Sept. 2023</i>	5A, 5D
242-2/5	Reference radiation patterns of omnidirectional and sectoral antennas for the fixed and mobile services for use in sharing studies	S2	01/10/2015	2027	<i>Editorially updated by SG 5 in Sept. 2023</i>	5A, 5C, 5D
262-1/5	Usage of the terrestrial component of IMT systems for specific applications	S2	12/12/2023	2027		5D

ITU-R Recommendations assigned to WP 5D

Taken from “Assignment of texts to the Study Group 5 Sub-Groups” ([Document 5/1](#), Attachment 2)

Recommendation ITU-R	Title	Approval date	Reference in RR	Comments	WP
M.687-2	International Mobile Telecommunications-2000 (IMT-2000)	28/02/1997			5D
M.816-1	Framework for services supported on International Mobile Telecommunications-2000 (IMT-2000)	24/10/1997			5D
M.817-0	International Mobile Telecommunications-2000 (IMT-2000). Network architectures	08/03/1992			5D
M.819-2	International Mobile Telecommunications-2000 (IMT-2000) for developing countries	28/02/1997			5D
M.1034-1	Requirements for the radio interface(s) for International Mobile Telecommunications-2000 (IMT-2000)	28/02/1997			5D
M.1035-0	Framework for the radio interface(s) and radio sub-system functionality for International Mobile Telecommunications-2000 (IMT-2000)	16/11/1993			5D
M.1036-7	Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications (IMT) in the bands identified for IMT in the Radio Regulations	13/12/2023			5D
M.1078-0	Security principles for International Mobile Telecommunications-2000 (IMT-2000)	31/09/1994			5D
M.1079-2	Performance and quality of service requirements for International Mobile Telecommunications-2000 (IMT-2000) access networks	19/06/2003			5D
M.1168-0	Framework of International Mobile Telecommunications-2000 (IMT-2000)	20/10/1995			5D
M.1182-1	Integration of terrestrial and satellite mobile communication systems	19/06/2003		<i>Res. 44 update at SG 8 on Dec. 2004. Jointly approved by SGs 4 and 5</i>	4B, 5D
M.1223-0	Evaluation of security mechanisms for IMT-2000	28/02/1997			5D
M.1224-1	Vocabulary of terms for International Mobile Telecommunications (IMT)	15/03/2012			5D
M.1225-0	Guidelines for evaluation of radio transmission technologies for IMT-2000	28/02/1997			5D
M.1311-0	Framework for modularity and radio commonality within IMT-2000	24/10/1997			5D

Recommendation ITU-R	Title	Approval date	Reference in RR	Comments	WP
M.1390-0	Methodology for the calculation of IMT-2000 terrestrial spectrum requirements	14/01/1999			5D
M.1456-0	Minimum performance characteristics and operational conditions for high altitude platform stations providing IMT-2000 in the bands 1 885-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz in Regions 1 and 3 and 1 885-1 980 MHz and 2 110-2 160 MHz in Region 2	05/05/2000		<i>Scope added editorially by SG 5 Nov. 2008</i>	5D
M.1457-15	Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2000 (IMT-2000)	27/01/2019			5D
M.1545-0	Measurement uncertainty as it applies to test limits for the terrestrial component of International Mobile Telecommunications-2000	14/08/2001		<i>Scope added editorially by SG 5 Nov. 08</i>	5D
M.1579-2	Global circulation of IMT terrestrial terminals	27/01/2015			5D
M.1580-5	Generic unwanted emission characteristics of base stations using the terrestrial radio interfaces of IMT-2000	20/02/2014			5D
M.1581-5	Generic unwanted emission characteristics of mobile stations using the terrestrial radio interfaces of IMT-2000	20/02/2014			5D
M.1635-0	General methodology for assessing the potential for interference between IMT-2000 or systems beyond IMT-2000 and other services	19/06/2003			5D
M.1641-1	A methodology for co-channel interference evaluation to determine separation distance from a system using high-altitude platform stations to a cellular system to provide IMT-2000 service	19/03/2006			5D
M.1645-0	Framework and overall objectives of the future development of IMT-2000 and systems beyond IMT-2000	06/06/2003		<i>Jointly approved by SGs 4 and 5</i>	4B, 5D
M.1646-0	Parameters to be used in co-frequency sharing and pfd threshold studies between terrestrial IMT-2000 and BSS (sound) in the 2 630-2 655 MHz band	06/06/2003		<i>Scope added editorially by SG 5 Nov. 08</i>	5D
M.1654-0	A methodology to assess interference from broadcasting satellite service (sound) into terrestrial IMT-2000 systems intending to use the band 2 630-2 655 MHz	06/06/2003		<i>Jointly approved by SGs 4 and 5</i>	4A, 5D
M.1768-1	Methodology for calculation of spectrum requirements for the terrestrial component of International Mobile Telecommunications	08/04/2013			5D
M.1822-0	Framework for services supported by IMT	25/10/2007			5D
M.2012-6	Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications Advanced (IMT-Advanced)	13/12/2023			5D

Recommendation ITU-R	Title	Approval date	Reference in RR	Comments	WP
M.2070-2	Unwanted emission characteristics of base stations using the terrestrial radio interfaces of IMT-Advanced	13/12/2023			5D
M.2071-2	Unwanted emission characteristics of mobile stations using the terrestrial radio interfaces of IMT-Advanced	13/12/2023			5D
M.2083-0	IMT Vision – Framework and overall objectives of the future development of IMT for 2020 and beyond	29/09/2015			5D
M.2090-0	Specific unwanted emission limit of IMT mobile stations operating in the frequency band 694-790 MHz to facilitate protection of existing services in Region 1 in the frequency band 470-694 MHz	30/10/2015			5D
M.2101-0	Modelling and simulation of IMT networks and systems for use in sharing and compatibility studies	09/02/2017			5D
M.2150-2	Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2020 (IMT-2020)	13/12/2023			5D
M.2159-0	Technical and regulatory measures to provide compatibility between IMT and MSS, with respect to MSS operations in the frequency band 1 518-1 525 MHz for administrations wishing to implement IMT in the frequency band 1 492-1 518 MHz	09/12/2023		<i>Jointly approved by SGs 4 and 5</i>	4C, 5D
M.2160-0	Framework and overall objectives of the future development of IMT for 2030 and beyond	14/11/2023		<i>Approved by RA-23</i>	5D
M.2161-0	Guidelines to assist administrations to mitigate in-band interference from FSS earth stations operating in the frequency bands 24.65-25.25 GHz, 27-27.5 GHz, 42.5-43.5 GHz and 47.2-48.2 GHz into IMT stations	13/12/2023			5D

ITU-R Reports assigned to WP 5D

Taken from “Assignment of texts to the Study Group 5 Sub-Groups” ([Document 5/1](#), Attachment 3)

Report ITU-R	Title	Approval date	Comments	WP
M.1153-0	Future public land mobile telecommunication systems	31/12/1990		5D
M.1155-0	Adaptation of mobile radiocommunication technology to the needs of developing countries	31/12/1990		5A, 5D
M.2023-0	Spectrum requirements for International Mobile Telecommunications-2000 (IMT-2000)	31/12/2000		5D
M.2024-0	Summary of spectrum usage survey results	31/12/2000		5D
M.2030-0	Coexistence between IMT-2000 time division duplex and frequency division duplex around 2 600 MHz operating in adjacent bands and in the same geographical area	05/02/2003		5D
M.2031-0	Compatibility between WCDMA 1800 downlink and GSM 1900 uplink	05/02/2003		5D
M.2038-0	Technology trends	05/12/2003		5D
M.2039-3	Characteristics of terrestrial IMT-2000 systems for frequency sharing/interference analyses	11/11/2014		5D
M.2041-0	Sharing and adjacent band compatibility in the 2.5 GHz band between the terrestrial and satellite components of IMT-2000	05/12/2003	<i>Jointly approved by SGs 4 and 5</i>	4C, 5D
M.2045-0	Mitigating techniques to address coexistence between IMT-2000 time division duplex and frequency division duplex radio interface technologies within the frequency range 2 500-2 690 MHz operating in adjacent bands and in the same geographical area	10/12/2004		5D
M.2072-0	World mobile telecommunication market forecast	22/11/2005		5D
M.2074-0	Radio aspects for the terrestrial component of IMT-2000 and systems beyond IMT-2000	22/11/2005		5D
M.2078-0	Estimated spectrum bandwidth requirements for the future development of IMT-2000 and IMT-Advanced	21/09/2006		5D
M.2079-0	Technical and operational information for identifying spectrum for the terrestrial component of future development of IMT-2000 and IMT-Advanced	21/09/2006		5D
M.2109-0	Sharing studies between IMT-Advanced systems and geostationary satellite networks in the fixed satellite service in the 3 400-4 200 MHz and 4 500-4 800 MHz frequency bands	26/06/2007		5D

Report ITU-R	Title	Approval date	Comments	WP
M.2110-0	Sharing studies between radiocommunication services and IMT systems operating in the 450-470 MHz band	26/06/2007		5D
M.2111-0	Sharing studies between IMT-Advanced and radiolocation services in the 3 400-3 700 MHz bands	26/06/2007		5D
M.2112-0	Compatibility/sharing of airport surveillance radars and meteorological radar with IMT systems within the 2 700-2 900 MHz band	26/06/2007		5D
M.2113-1	Sharing studies in the 2 500-2 690 MHz band between IMT-2000 and fixed broadband wireless access (BWA) systems including nomadic applications in the same geographical area	11/11/2008		5D
M.2133-0	Requirements, evaluation criteria and submission templates for the development of IMT-Advanced	11/11/2008		5D
M.2134-0	Requirements related to technical performance for IMT-Advanced radio interface(s)	11/11/2008		5D
M.2135-1	Guidelines for evaluation of radio interface technologies for IMT-Advanced	08/12/2009		5D
M.2146-0	Coexistence between IMT-2000 CDMA DS and IMT-2000 OFDMA TDD WMAN in the 2 500-2 690 MHz band operating in adjacent bands in the same area	29/05/2009		5D
M.2198-0	The outcome of the evaluation, consensus building and decision of the IMT-Advanced process (steps 4-7), including characteristics of IMT-Advanced radio interfaces	23/11/2010		5D
M.2241-0	Compatibility studies in relation to Resolution 224 in the bands 698-806 MHz and 790-862 MHz	23/11/2011		5D
M.2242-0	Cognitive Radio Systems specific for International Mobile Telecommunications systems	23/11/2011		5D
M.2243-0	Assessment of the global mobile broadband deployments and forecasts for International Mobile Telecommunications	23/11/2011		5D
M.2244-0	Isolation between antennas of IMT base stations in the land mobile service	23/11/2011		5D
M.2289-0	Future radio aspect parameters for use with the terrestrial IMT spectrum estimate methodology of Recommendation ITU-R M.1768-1	03/12/2013		5D
M.2290-0	Future spectrum requirements estimate for terrestrial IMT	03/12/2013		5D
M.2291-2	The use of International Mobile Telecommunications (IMT) for broadband public protection and disaster relief (PPDR) applications	16/12/2021		5D

Report ITU-R	Title	Approval date	Comments	WP
M.2292-0	Characteristics of terrestrial IMT-Advanced systems for frequency sharing/interference analyses	03/12/2013		5D
M.2320-0	Future technology trends of terrestrial IMT systems	11/11/2014		5D
M.2324-0	Sharing studies between potential International Mobile Telecommunication systems and aeronautical mobile telemetry systems in the frequency band 1 429-1 535 MHz	11/11/2014		5B, 5D
SA.2325-0	Sharing between space-to-space links in space research, space operation and Earth exploration-satellite services and IMT systems in the frequency bands 2 025-2 110 MHz and 2 200-2 290 MHz	11/11/2014	<i>Jointly developed by SGs 5 and 7</i>	SG 7, 5D
F.2326-0	Sharing and compatibility study between indoor International Mobile Telecommunication small cells and fixed service station in the 5 925-6 425 MHz frequency band	11/11/2014		5C, 5D
F.2327-0	Sharing and compatibility study between International Mobile Telecommunication systems and point-to-point fixed wireless systems in the frequency band 4 400-4 990 MHz	11/11/2014		5C, 5D
F.2328-0	Sharing and compatibility between international mobile telecommunication systems and fixed service systems in the 3 400-4 200 MHz frequency range	11/11/2014		5C, 5D
SA.2329-0	Sharing assessment between meteorological satellite systems and IMT stations in the 1 695-1 710 MHz frequency band	11/11/2014	<i>Jointly developed by SGs 5 and 7</i>	SG 7, 5D
F.2331-0	Sharing and compatibility between international mobile telecommunication systems and fixed service systems in the 470-694/698 MHz frequency range	11/11/2014		5C, 5D
RA.2332-0	Compatibility and sharing studies between the radio astronomy service and IMT systems in the frequency bands 608-614 MHz, 1 330-1 400 MHz, 1 400-1 427 MHz, 1 610.6-1 613.8 MHz, 1 660-1 670 MHz, 2 690-2 700 MHz, 4 800-4 990 MHz and 4 990-5 000 MHz	11/11/2014	<i>Jointly developed by SGs 5 and 7</i>	SG 7, 5D
F.2333-0	Sharing and compatibility study between international mobile telecommunication and the fixed service in the frequency band 1 350-1 527 MHz	11/11/2014		5C, 5D
M.2334-0	Passive and active antenna systems for base stations of IMT systems	11/11/2014		5D
RS.2336-0	Consideration of the frequency bands 1 375-1 400 MHz and 1 427-1 452 MHz for the mobile service – Compatibility with systems of the Earth exploration-satellite service (EESS) within the 1 400-1 427 MHz frequency band	11/11/2014	<i>Jointly developed by SGs 5 and 7</i>	SG 7, 5D
BT.2337-0	Sharing and compatibility studies between digital terrestrial television broadcasting and terrestrial mobile broadband applications, including IMT, in the frequency band 470-694/698 MHz	21/11/2014	<i>Jointly developed by SGs 5 and 6</i>	SG 6, 5D

Report ITU-R	Title	Approval date	Comments	WP
BT.2338-0	Services ancillary to broadcasting/services ancillary to programme making spectrum use in Region 1 and the implication of a co-primary allocation for the mobile service in the frequency band 694-790 MHz	21/11/2014	<i>Jointly developed by SGs 5 and 6</i>	SG 6, 5D
BT.2339-0	Co-channel sharing and compatibility studies between digital terrestrial television broadcasting and international mobile telecommunication in the frequency band 694-790 MHz in the GE06 planning area	21/11/2014	<i>Jointly developed by SGs 5 and 6</i>	SG 6, 5D
BS.2340-0	Sharing between the mobile service and the broadcasting service in the 1 452-1 492 MHz frequency band	21/11/2014	<i>Jointly developed by SGs 5 and 6</i>	SG 6, 5D
S.2367-0	Sharing and compatibility between International Mobile Telecommunication systems and fixed-satellite service networks in 5 850-6 425 MHz frequency range	26/06/2015	<i>Jointly developed by SGs 4 and 5</i>	SG 4, 5D
S.2368-0	Sharing studies between International Mobile Telecommunication-Advanced systems and geostationary satellite networks in the fixed-satellite service in the 3 400-4 200 MHz and 4 500-4 800 MHz frequency bands in the WRC study cycle leading to WRC-15	26/06/2015	<i>Jointly developed by SGs 4 and 5</i>	SG 4, 5D
M.2370-0	IMT Traffic estimates for the years 2020 to 2030	21/07/2015		5D
M.2373-1	Audio-visual capabilities and applications supported by terrestrial IMT systems	19/11/2018		5D
M.2374-0	Coexistence of two TDD networks in the 2 300-2 400 MHz band	21/07/2015		5D
M.2375-0	Architecture and topology of IMT networks	21/07/2015		5D
M.2376-0	Technical feasibility of IMT in bands above 6 GHz	21/07/2015		5D
M.2410-0	Minimum requirements related to technical performance for IMT-2020 radio interface(s)	20/11/2017		5D
M.2411-0	Requirements, evaluation criteria and submission templates for the development of IMT-2020	20/11/2017		5D
M.2412-0	Guidelines for evaluation of radio interface technologies for IMT-2020	20/11/2017		5D
M.2440-0	The use of the terrestrial component of International Mobile Telecommunications (IMT) for Narrowband and Broadband Machine-Type Communications	19/11/2018		5D
M.2441-0	Emerging usage of the terrestrial component of International Mobile Telecommunication (IMT)	19/11/2018		5D
M.2480-1	National approaches of some countries on the implementation of terrestrial IMT systems in bands identified for IMT	16/12/2021		5D
M.2481-0	In band and adjacent band coexistence and compatibility studies between IMT systems in 3 300-3 400 MHz and radiolocation systems in 3 100 3 400 MHz	03/09/2019		5D

Report ITU-R	Title	Approval date	Comments	WP
M.2498-0	The outcome of 'Way Forward Option 2 for “ETSI (TC DECT) and DECT Forum Proponent” of the evaluation, consensus building and decision of the IMT-2020 process (Steps 4 to 7), including characteristics of IMT-2020 radio interfaces	16/12/2021		5D
M.2499-0	Synchronization of IMT-2020 Time Division Duplex networks	16/12/2021		5D
M.2516-0	Future technology trends of terrestrial International Mobile Telecommunications systems towards 2030 and beyond	28/11/2022		5D
M.2518-0	Terrestrial International Mobile Telecommunications for remote sparsely populated areas providing high data rate coverage	28/11/2022		5D
M.2520-0	The use of the terrestrial component of International Mobile Telecommunications for the Cellular-Vehicle-to-Everything	28/11/2022		5D
M.2527-0	Applications of the terrestrial component of IMT for specific societal, industrial and enterprise usages	26/09/2023		5D
M.2528-0	Capabilities of the terrestrial component of IMT-2020 for multimedia communications	26/09/2023		5D
M.2529-0	Adjacent band compatibility studies of IMT systems in the mobile service in the band 1 492-1 518 MHz with respect to systems in the mobile-satellite service in the frequency band 1 518-1 525 MHz	26/09/2023	<i>Jointly approved by SGs 4 and 5</i>	4C, 5D

ITU-R Handbooks, Resolutions and Opinions assigned to WP 5D

Taken from “Assignment of texts to the Study Group 5 Sub-Groups” ([Document 5/1](#), Attachments 4, 5 & 6)

Handbook	Title	Approval date	Comments	WP
30	Land Mobile (including Wireless Access) Volume 2: Principles and approaches on evolution to IMT-2000/FPLMTS	12/06/1997		5D
37	IMT-2000: Special Edition	23/10/2000		5D
46-1	Migration to IMT-2000 Systems – Supplement 1 to the Handbook on deployment of IMT-2000 systems	20/06/2011		5D
60	Deployment of IMT-2000 Systems	30/06/2003		5D
62	Handbook on International Mobile Telecommunications (IMT)	17/05/2022	<i>2022 edition with updated title</i>	5D

NOTE – It is a practice that Study Group 5 delegates, for the entire study period, the approval of Handbooks to its Working Parties in accordance with § 2.3 of Resolution ITU-R 1.

Resolution ITU-R	Title	Approval date	Comments	WP
<u>50-5</u>	Role of the Radiocommunication Sector in the ongoing development of IMT	13/11/2023		4B, 5D
<u>56-3</u>	Naming for International Mobile Telecommunications	16/11/2023		4B, 5D
<u>57-2</u>	Principles for the process of development of IMT-Advanced	30/10/2015		4B, 5D
<u>58-2</u>	Studies on the implementation and use of cognitive radio systems	25/10/2019		5A, [5B], 5C, 5D
<u>60-3</u>	Reduction of energy consumption for environmental protection and mitigating climate change by use of ICT/radiocommunication technologies and systems	16/11/2023		5A, 5B, 5C, 5D
<u>62-3</u>	Studies related to testing for conformance with ITU R Recommendations and interoperability of radiocommunication equipment and systems	16/11/2023		5A, 5B, 5C, 5D
<u>65-1</u>	Principles for the process of future development of IMT-2020 and IMT-2030	16/11/2023		5D
<u>66-2</u>	Studies related to wireless systems and applications for the development of the Internet of Things (IoT)	13/11/2023		5A, 5D
<u>72</u>	Promoting gender equality and equity and bridging the contribution and participation gap between women and men in ITU-R activities	16/11/2023		All SG/WP, incl. 5A, 5C, 5B, 5D
<u>73</u>	Use of International Mobile Telecommunications technologies for fixed wireless broadband in the frequency bands allocated to the fixed service on a primary basis	13/11/2023		5C, 5D

Opinion ITU-R	Title	Approval date	Comments	WP
<u>92-2</u>	Support and harmonization of International Mobile Telecommunications (IMT) activities	23/11/2011		4B, 5D