



Malaysian Communications and Multimedia Commission
Suruhanjaya Komunikasi dan Multimedia Malaysia

Public Consultation Report

Proposed Malaysia's Position for World Radiocommunication Conference 2019 (WRC-19) Agenda Items

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MALAYSIA'S POSITION FOR WRC-19 AGENDA ITEMS

On 11 July 2019, the Malaysian Communications and Multimedia Commission ("MCMC") published a Public Consultation ("PC") document which invited the industry experts, interested parties and members of the public to submit their view on the proposed Malaysia's positions on 31 WRC-19 agenda items. This PC was carried out from 11 July to 9 August 2019.

By the end of the PC period at 12 noon on 9 August 2019, MCMC received twenty-two (22) written submissions from telecommunication companies, satellite operators, standardisation bodies as well as equipment manufacturers. The final Malaysia's positions on 31 WRC-19 agenda items are listed in the table below.

Agenda Item	Subject	Malaysia's Position
1.1	To consider an allocation of the frequency band 50-54 MHz to the amateur service in Region 1	Malaysia supports the allocation to the amateur service in Region 1 and ensure no adverse impact to incumbent services in the frequency band 50-54 MHz and adjacent frequency bands in Region 3.
1.2	To consider in-band power limit for earth stations operating in the mobile-satellite service, meteorological-satellite service and Earth exploration-satellite service in 401-403 MHz and 399.9-400.05 MHz	Malaysia supports proposal to impose the relevant power limits to mobile-satellite service earth stations in the frequency band 399.9-400.05 MHz and to impose the relevant power limits to meteorological-satellite and Earth exploration-satellite services earth stations in the frequency band 401-403 MHz.

Agenda Item	Subject	Malaysia's Position
1.3	To consider possible upgrading of the secondary allocation to the meteorological-satellite (space-to-Earth) to primary status and a possible primary allocation to the Earth exploration-satellite service (space-to-Earth) in the frequency band 460-470 MHz	Malaysia supports proposal to upgrade the allocation for meteorological-satellite service (space-to-Earth) from secondary to primary status and addition of primary allocation for Earth exploration-satellite service (space-to-Earth) in the frequency band 460-470 MHz. In addition, Malaysia also supports new ITU-R Resolution to address all regulatory actions and procedures.
1.4	To consider the results of studies in accordance with Resolution 557 (WRC-15), and review, and revise if necessary, the limitations mentioned in Annex 7 to Appendix 30 (Rev.WRC-12), while ensuring the protection of, and without imposing additional constraints on, assignments in the Plan and the List and the future development of the broadcasting-satellite service within the Plan, and existing and planned fixed-satellite service networks	Malaysia supports relaxation/removal of some orbital position limitations in Annex 7 to Radio Regulations Appendix 30, taking into account that protection and priority of Malaysia's frequency assignments in Region 3 List is ensured.
1.5	To consider the use of 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) by earth stations in motion (ESIM) communicating with geostationary space stations in the fixed-satellite service and take appropriate action	Malaysia supports ESIM operation through addition of a new footnote in the Radio Regulations that refers to a new WRC Resolution, which specifies technical, operational and regulatory conditions for the operation of ESIM while ensuring protection to existing allocated services.

Agenda Item	Subject	Malaysia's Position
1.6	To consider the development of a regulatory framework for non-geostationary orbit fixed-satellite service satellite systems that may operate in the frequency bands 37.5-39.5 GHz (space-to-Earth), 39.5-42.5 GHz (space-to-Earth), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space)	<p><u>Issue 1</u></p> <p>Malaysia supports development of regulatory framework for non-GSO satellite systems while ensuring protection to existing services in the same and adjacent frequency bands.</p> <p><u>Issue 2</u></p> <p>Malaysia is of the view that modification to Resolution 750 (WRC-15) for GSO networks is outside the scope of this agenda item.</p>
1.7	To study the spectrum needs for telemetry, tracking and command in the space operation service for non-geostationary satellite orbit satellites with short duration missions, to assess the suitability of existing allocations to the space operation service, and if necessary, to consider new allocations	Malaysia supports no change to the Radio Regulations.
1.8	To consider possible regulatory actions to support Global Maritime Distress Safety Systems (GMDSS) modernisation and to support additional satellite systems into the GMDSS	<p><u>Issue A</u></p> <p>Malaysia supports GMDSS modernisation for NAVDAT system and frequencies to be used should be included in the Radio Regulations.</p> <p><u>Issue B</u></p> <p>Malaysia supports the introduction of additional satellite systems to support GMDSS.</p>
1.9.1	To consider based on ITU-R studies, regulatory actions within the frequency band 156-162.05 MHz for autonomous maritime radio devices to protect the Global Maritime Distress Safety Systems and automatic identification system (AIS)	Malaysia supports operation of AMRD in the relevant frequencies in the Radio Regulations Appendix 18.

Agenda Item	Subject	Malaysia's Position
1.9.2	To consider based on ITU-R studies, modifications of the Radio Regulations, including new spectrum allocations to the maritime mobile-satellite service (Earth-to-space and space-to-Earth), within 156.0125-157.4375 MHz and 160.6125-162.0375 MHz of Appendix 18, to enable a new VHF data exchange system (VDES) satellite component, while ensuring that this component will not degrade the current terrestrial VDES components, applications specific messaging (ASM) and AIS operations and not impose any additional constraints on existing services in these and adjacent frequency bands	Malaysia supports new spectrum allocations included in the Radio Regulations Appendix 18 to enable a new VHF data exchange system satellite components.
1.10	To consider spectrum needs and regulatory provisions for the introduction and use of the Global Aeronautical Distress and Safety System (GADSS)	Malaysia supports recognition of GADSS in the Radio Regulations through amendment of existing article to introduce GADSS and addition of new article to describe GADSS in chapter on "Distress and Safety Communications".
1.11	To take necessary actions, as appropriate, to facilitate global or regional harmonised frequency bands to support railway radiocommunication systems between train and trackside (RSTT) within existing mobile service allocations	Malaysia supports harmonisation of global or regional frequency for RSTT through the development of relevant ITU-R Recommendations and/or Reports and without specifying frequency ranges in the Radio Regulations.
1.12	To consider possible global or regional harmonised frequency bands, to the maximum extent possible, for the implementation of Intelligent Transport Systems (ITS) under existing mobile service allocations	Malaysia supports harmonisation of global or regional frequency for ITS. Malaysia is of the view that harmonisation can be achieved by using ITU-R Recommendation as reference and without specifying frequency ranges in the Radio Regulations.

Agenda Item	Subject	Malaysia's Position
1.13	To consider identification of frequency bands for the future development of International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis	<p>Malaysia supports identification of terrestrial component of IMT in the following frequency bands:</p> <ul style="list-style-type: none"> a) 24.25 to 27.5 GHz b) 37 to 40.5 GHz c) 40.5 to 42.5 GHz d) 42.5 to 43.5 GHz e) 66 to 71 GHz <p>Malaysia does not oppose identification of IMT in the following frequency bands:</p> <ul style="list-style-type: none"> a) 45.5 to 47 GHz b) 47 to 47.2 GHz c) 47.2 to 50.2 GHz d) 50.4 to 52.6 GHz e) 71 to 76 GHz f) 81 to 86 GHz <p>Malaysia does not support IMT identification in the frequency band 31.8 to 33.4 GHz.</p>
1.14	To consider, on the basis of the ITU-R studies, appropriate regulatory actions for high altitude platform stations (HAPS) within existing fixed service allocations	Malaysia is of the view that no additional spectrum is required for HAPS.
1.15	To consider identifications of frequency bands for use by administrations for the land-mobile and fixed service applications in 275-450 GHz	Malaysia supports identification of 275-296 GHz, 306-313 GHz, 320-330 GHz, 356-450 GHz for land-mobile and fixed service applications.

Agenda Item	Subject	Malaysia's Position
1.16	To consider issues related to wireless access systems, including radio local area networks (WAS/RLAN), in the frequency bands between 5 150 MHz and 5 925 MHz, and to take appropriate regulatory actions, including additional spectrum allocations to the mobile service	<p><u>5 150-5 250 MHz band</u></p> <p>Malaysia supports outdoor WAS/RLAN operations with associated conditions to protect the incumbent services.</p> <p><u>5 250-5 350 MHz, 5 350-5 470 MHz and 5 850-5 925 MHz bands</u></p> <p>Malaysia supports no change to the Radio Regulations.</p> <p><u>5 725-5 850 MHz band</u></p> <p>Malaysia supports mobile service allocation to accommodate WAS/RLAN use.</p>
2	To examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in Annex 1 to Resolution 27 (Rev. WRC-12)	Malaysia supports merge of Resolutions 27 and 28. Malaysia also supports examination and review of ITU-R Recommendations incorporated by reference to ensure the Radio Regulations remain updated.
4	To review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation	Malaysia supports modification to Resolution 95 and course of action on Resolutions and Recommendations to ensure the Radio Regulations remain current and relevant.

Agenda Item	Subject		Malaysia's Position
7	A	Bringing into use of frequency assignments to all non-GSO systems, and consideration of a milestone-based approach for the deployment of non-GSO systems in specific frequency bands and services	<p>Malaysia supports requirement for BIU of frequency assignments of non-GSO systems and introduction of milestone-based approach for specific services and frequency bands that recognises that constellations of non-GSO systems may generally take time to be developed and to complete their deployment.</p> <p>In addition, Malaysia also supports a new ITU-R Resolution for implementation of milestone-based approach for deployment of non-GSO systems in certain frequency band and services.</p>
	B	Application of coordination arc in the Ka-band, to determine coordination requirements between the fixed-satellite service and other satellite services	Malaysia supports on use of coordination arc with a value of 8 degrees as coordination criteria to determine if coordination is required between fixed-satellite service and mobile-satellite service systems and between mobile-satellite service systems in the said Ka-band in all three (3) Regions, while keeping the possibility for administrations to request $\Delta T/T$ criteria.
	C1	To address the regulatory inconsistency identified in this issue is to align the text of paragraph 8.13 of Article 8 of Radio Regulations Appendix 30B with that of Radio Regulations No. 11.43A of Radio Regulations Article 11	Malaysia supports to address the regulatory inconsistency identified by aligning the text of paragraph 8.13 of Article 8 of Radio Regulations Appendix 30B with that of No. 11.43A of Radio Regulations Article 11.
	C2	To add another footnote to paragraph 6.1 of Article 6 of Radio Regulations Appendix 30B	Malaysia supports to add another footnote to paragraph 6.1 of Radio Regulations Appendix 30B to address the issue.

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	C3	To add a new provision in Article 6 of Radio Regulations Appendix 30B to clearly state that § 6.13 to 6.15 of Radio Regulations Appendix 30B do not apply in the context of requirements associated with §6.6 of Radio Regulations Appendix 30B	Malaysia supports to add new provision in Article 6 of Appendix 30B to clearly stipulate that § 6.13 – 6.15 of Appendix 30B do not apply in the context of requirements associated with § 6.6 of Radio Regulations Appendix 30B.
	C4	To solidify the information required for submission for entry into the List under § 4.1.12 and for Notification under §§ 5.1.1 and 5.1.2 of Radio Regulations Appendices 30 and 30A which seem to be identical	Malaysia supports modification of § 4.1.12 <i>bis</i> and 4.2.16 <i>bis</i> of Radio Regulations Appendices 30 and 30A to allow administrations to request the Radiocommunication Bureau to have notices submitted under any of these two provisions also examined with respect to § 5.1.1 of Radio Regulations Appendix 30 and § 5.1.2 of Radio Regulations Appendix 30A for Notification.
	C5	To be considered advantageous to Notifying Administrations if the Bureau sends a reminder of the option to resubmit returned frequency assignments under Radio Regulations No. 11.37 or 11.38. Modification of Radio Regulations No. 11.46 requiring the Bureau to remind the Notifying Administration of the 6-month deadline would aid Administrations who may have had difficulties in receiving the communication of returned frequency assignments	Malaysia supports modification of Radio Regulations No. 11.46 requiring the Radiocommunication Bureau to remind the notifying administration of the 6-month deadline.
	C6	To modify § 6.17 to allow one submission to be treated in respect of both provisions and modify Radio Regulations Appendix 4 to enable this	Malaysia supports modification of § 6.17 of Radio Regulations Appendix 30B to allow one submission to be treated in respect of both provisions (§ 6.17 and § 8.1 of Radio Regulations Appendix 30B) and modification of Radio Regulations Appendix 4 to enable this.

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	C7	To add a new provision 6.15 <i>bis</i> to Article 6 of Radio Regulations Appendix 30B in order to recognize the possibility of obtaining agreement from affected administrations for a specified period	<p>Malaysia supports to add new provision § 6.15<i>bis</i> to Article 6 and a new provision § 8.16<i>bis</i> to Article 8 of Radio Regulations Appendix 30B in order to recognise the possibility of obtaining agreement from affected administrations for a specified period.</p> <p>Further, in order to harmonise Radio Regulations Appendices 30, 30A and 30B, modification to § 5.2.6 to Article 5 of Appendix 30A would be necessary.</p>
	D	Identification of those specific satellite networks and systems with which coordination needs to be effected under Nos. 9.12, 9.12A and 9.13	<p>Malaysia supports to add the requirements to have:</p> <ul style="list-style-type: none"> a) a pre-compiled list of potentially affected satellite networks and/or systems, published for information only, included in the CR/C Special Section for coordination under Radio Regulations Nos. 9.12, 9.12A and 9.13, by stipulating it in Radio Regulations No. 9.36.1; and b) the definitive list of affected satellite networks or systems to be considered when effecting coordination under Radio Regulations Nos. 9.12, 9.12A and 9.13 to be included in the CR/D Special Section by stipulating it in Radio Regulations No. 9.53A.

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	E	Resolution related to Radio Regulations Appendix 30B	Malaysia supports establishment of special measures to be applied once with respect to the submission received from an administration having no frequency assignments in the Radio Regulations Appendix 30B List the details of which are to be contained in a WRC Resolution to facilitate the tasks of those administrations to provide an economically viable satellite service to its national territory as initially considered when the allotment Plan was established in 1988.
	F	Measures to facilitate entering new assignments into the Radio Regulations Appendix 30B List	Malaysia supports updating the coordination triggers to take into account technological advances that facilitates coordination of submission of new networks while assuring adequate protection of existing allotment and operational additional systems recorded in the List.
	G	Updating the reference situation for Regions 1 and 3 networks under Radio Regulations Appendices 30 and 30A when provisionally recorded assignments are converted into definitive recorded assignments	Malaysia supports the reference situation of the interfered-with network should be updated in consultation with, and only with the agreement of the affected administration, with modification of § 4.1.18 <i>bis</i> of Radio Regulations Appendices 30 and 30A.

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	H	Modifications to Radio Regulations Appendix 4 data items to be provided for non-GSO satellite systems	<p>Malaysia supports modifications to Radio Regulations Appendix 4 as follows:</p> <ul style="list-style-type: none"> a) extension of the requirement in Radio Regulations Appendix 4 for APIs and notifications for frequency assignments to non-GSO systems in frequency bands not subject to coordination under Section II of Radio Regulations Article 9. Those requirements would apply only for constellation-type non-GSO systems. b) addition of new mandatory and optional items for APIs and notifications for frequency assignments to non-GSO systems in frequency bands not subject to coordination under Section II of Radio Regulations Article 9. c) additional new data items in Radio Regulations Appendix 4 for the provision of information relating to the multiple orbital planes and their relationship with respect to the non-GSO system. d) additional new data items in Radio Regulations Appendix 4 or modify existing ones to implement changes associated with the revision of Recommendation ITU-R S.1503.
	I	Modified regulatory procedure for non-GSO satellite systems with short-duration missions	Malaysia supports modification to Radio Regulations Articles 9 and 11, including addition of a new WRC Resolution.

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	J	Pfd limit in Section 1, Annex 1 of Radio Regulations Appendix 30	Malaysia supports to allow List assignments to exceed the pfd limit given only within the national territory of the notifying administration under the condition that the assignment does not overlap with the Regions 1 and 3 guardbands as defined in § 3.9 of Annex 5 to Radio Regulations Appendix 30 and also under the condition that, on the border areas and other territory of another country, this pfd limit is not exceeded.
	K	Difficulties for Part B examinations under § 4.1.12 or 4.2.16 of Radio Regulations Appendices 30 and 30A and § 6.21 c) of Radio Regulations Appendix 30B	Regulations Appendices 30 and 30A and § 6.21 c) of Radio Regulations Appendix 30B such that should any remaining affected networks whose assignments have been entered in the List or Plan before the submission under § 4.1.12 and § 4.2.16 of Radio Regulations Appendices 30 and 30A or § 6.17 of Radio Regulations Appendix 30B, the Radiocommunication Bureau shall further examine if the remaining corresponding assignments in the List or Plan are still considered as being affected.
8	to consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, taking into account Resolution 26 (Rev. WRC-07)		Malaysia supports modification to Resolution 26 to address the 4 issues identified under this agenda item.
9.1 (issue 9.1.1)	Implementation of International Mobile Telecommunications in the frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz		Malaysia is of the view that regulatory measures or actions to the Radio Regulations are outside the scope of this Issue.
9.1 (issue 9.1.2)	Compatibility of International Mobile Telecommunications and broadcasting-satellite service (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3		Malaysia supports protection to IMT in the frequency band 1 452-1 492 MHz.

Agenda Item	Subject	Malaysia's Position
9.1 (issue 9.1.3)	Study of technical and operational issues and regulatory provisions for new non-geostationary-satellite orbit systems in 3 700-4 200 MHz, 4 500- 4 800 MHz, 5 925-6 425 MHz and 6 725-7 025 MHz frequency bands allocated to the fixed-satellite service	Malaysia supports no change to the Radio Regulations.
9.1 (issue 9.1.4)	Stations on board sub-orbital vehicles	Malaysia supports no change to the Radio Regulations.
9.1 (issue 9.1.5)	Consideration of the technical and regulatory impacts of referencing Recommendations ITU-R M.1638-1 and ITU-R M.1849-1 in Nos. 5.447F and 5.450A of the Radio Regulations	Malaysia supports long-term solution that requires less regulation should Recommendations ITU-R M.1638 or M.1849 be updated again in the future while ensuring protection to the incumbent services.
9.1 (issue 9.1.6)	Studies concerning Wireless Power Transmission (WPT) for electric vehicles, to assess the impact of WPT for electric vehicles on radiocommunications services, and study suitable harmonised frequency ranges which would minimise the impact on radiocommunication services from WPT for electrical vehicles	Malaysia supports no change to the Radio Regulations.
9.1 (issue 9.1.7)	Studies to examine whether there is a need for possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals in accordance with No. 18.1, and the possible methods that will assist administrations in managing the unauthorized operation of earth station terminals deployed within its territory, as a tool to guide their national spectrum management programme, in accordance with Resolution ITU-R 64 (RA-15)	Malaysia supports no change to the Radio Regulations on the additional measures to limit operation of unauthorised earth stations terminals.

Agenda Item	Subject	Malaysia's Position
9.1 (issue 9.1.8)	Studies on the technical and operational aspects of radio networks and systems, as well as spectrum needed, including possible harmonized use of spectrum to support the implementation of narrowband and broadband machine-type communication infrastructures, in order to develop Recommendations, Reports and/or Handbooks, as appropriate, and to take appropriate actions within the ITU-R scope of work	Malaysia supports no change to the Radio Regulations.
9.1 (issue 9.1.9)	Studies relating to spectrum needs and possible allocation of the frequency band 51.4-52.4 GHz to the fixed-satellite service (Earth-to-space)	Malaysia is currently studying the possibility of allocation to IMT in the frequency band 51.4-52.4 GHz.
10	To recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences	Malaysia could supports proposals for future agenda items subject to further studies.

/end

