

**ITUEvents**

# 2<sup>nd</sup> ITU Inter-regional Workshop on WRC-19 Preparation

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**2<sup>nd</sup> ITU INTER-REGIONAL WORKSHOP  
ON WRC-19 PREPARATION  
(Geneva, 20-22 November 2018)**

## **Positions of the Arab Spectrum Management Group (ASMG) on WRC-19 Agenda Items**

***ASMG***



Organized by:





# Chapter 1

Land mobile and fixed services  
(Agenda items 1.11, 1.12, 1.14, 1.15)



## Agenda Item 1.11

- “to take necessary actions, as appropriate, to facilitate global or regional harmonized frequency bands to support railway radiocommunication systems between train and trackside within existing mobile service allocations, in accordance with Resolution 236 (WRC-15)”
- ASMG Position:
  - Follow-up the studies about railway radio systems between the train and trackside within the current allocations of the mobile service.
  - Ensuring protection of the existing services without imposing any new restrictions on them.
  - Conduct a questionnaire for Arab administrations about railway radiocommunication systems.



## Agenda Item 1.12

- “to consider possible global or regional harmonized frequency bands, to the maximum extent possible, for the implementation of evolving Intelligent Transport Systems (ITS) under existing mobile-service allocations, in accordance with Resolution 237 (WRC-15)”
- ASMG Position:
  - Follow-up studies for this agenda item, and request administrations to consider the possibility of identifying appropriate frequency bands for these systems within the current allocations of the mobile service.
  - Work on developing a vision for the use of intelligent transport systems (ITS) in Arab administrations and study the spectrum needs of these systems.
  - Conduct a questionnaire for Arab administrations about the candidate bands to be used for ITS from the bands contained in draft Recommendation ITU-R.M. [ITS\_FRQ]



## Agenda Item 1.14

- “to consider , on the basis of ITU-R studies in accordance with Resolution 160 (WRC-15), appropriate regulatory actions for high-altitude platform stations (HAPS), within existing fixed-service allocations”
- ASMG Position is to support:
  - On preliminary basis, no new frequency identifications for HAPS
  - Following-up the on-going studies in ITU-R
  - Emphasizing on the necessity of:
    - clarifying of technical and operational characteristics of HAPS
    - providing clear technical solutions for protecting the existing allocations from potential interference caused by HAPS.
    - studying the appropriateness of the previously identified frequency bands to the HAPS applications.



## Agenda Item 1.15

- “to consider identification of frequency bands for use by administrations for the land-mobile and fixed services applications operating in the frequency range 275-450 GHz, in accordance with Resolution 767 (WRC-15)”
- ASMG Position:
  - Support the current studies to consider identification of frequency bands for use by administrations for the land-mobile and fixed services applications operating in the frequency range 275-450 GHz, while ensuring the protection of passive services identified in No 5.565, and not adding any additional constraints on these services and the possibility to support the only method proposed to satisfy this Agenda Item.



# Chapter 2

## Broadband applications in the mobile service

(Agenda items 1.13, 1.16, 9.1 (issues 9.1.1, 9.1.5, 9.1.8))



## Agenda Item 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, in accordance with Resolution 238 (WRC-15)”
- ASMG Position:
  - Support identification of IMT2020 within the frequency band 24.25 - 27.5 GHz with studying the following OOB limits in TG5/1 :
    - BS OOB Limits: -32 to -37 dBW/200 MHz
    - UE OOB Limits: -28 to -30 dBW/200 MHz
  - With no restrictions on the use of IMT in this band.
  - Support identification of IMT2020 within the following frequency bands:
    - 40.5 - 42.5 GHz
    - 42.5 - 43.5 GHz
  - Following up the ongoing studies on the other candidate bands as included in Resolution 238
  - Not supporting discussing any study or contribution on the frequency bands such as 28 GHz (27.5 – 29.5 GHz).
  - Protection of the existing services within the candidate band
  - Considering the protection of the existing services within the adjacent bands





## Agenda Item 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 take the appropriate regulatory actions, including additional spectrum allocations to the mobile service, in accordance with Resolution 239 (WRC-15)”
- ASMG Position:
  - Follow-up studies of this agenda item for wireless access systems including radio local area networks (WAS / RLAN) .
  - Do not support the identification of new bands for (WAS / RLAN), unless the studies show possibility of coexistence.
  - Ensure protection of the existing services without adding any new restrictions on them.



## Agenda Item 9.1, Issue 9.1.1

- “Resolution 212 (Rev.WRC-15) – Implementation of International Mobile Telecommunications in the frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz”
- ASMG Position:
  - Follow up the studies on this issue in the ITU Radio Sector Working Groups and Support technical, operational and procedural measures for IMT systems to ensure compatibility between the terrestrial and satellite components of IMT systems in the frequency bands 1980 - 2010 MHz and 2170 - 2200 MHz.
  - Preference for using the terrestrial component of IMT in these bands.



## Agenda Item 9.1, Issue 9.1.5

- “Resolution 764 (WRC-15) – 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”
- ASMG Position:
  - Follow up the studies and ensure protection of the existing services without adding new restrictions on them.



## Agenda Item 9.1, Issue 9.1.8

- “Resolution 958 (WRC-15) – Annex item 3) 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 Radiocommunication Sector (ITU-R) scope of work”
- ASMG Position:
  - For Broadband MTC and IoT applications: Support the use of existing bands identified for (IMT) systems to support the implementation of broadband communications infrastructure from machine to machine and (IoT)
  - For Narrowband MTC and IoT applications; Support the possibility of:
    - Using existing bands identified for (IMT) systems, such as (694 – 960 MHz)
    - Harmonized use of 2x3 MHz ( 733-736 / 788-791 MHz) in the 700 MHz band for narrowband MTC/IoT in interested countries
    - Use of IMT bands for other applications



# Chapter 3

## Satellite Services

(Agenda Items: 1.4, 1.5, 1.6, 7, 9.1 (issues 9.1.2, 9.1.3, 9.1.9))



## Agenda Item 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-15), 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”

### ASMG Preliminary Position:

- Support no change to Annex7 limitations
- Support no change Annex 1 to 4 of Appendix 30 as it is outside the scope of 1.4.



## Agenda Item 1.5

“to consider the use of the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) by earth stations in motion communicating with geostationary space stations in the fixed-satellite service and take appropriate action, in accordance with Resolution 158 (WRC-15)”

### ASMG Preliminary Position:

- Follow up potential effect of ESIM with respect to other services allocated in frequency bands 17.7-19.7 and 27.5-29.5 GHz and considering the protection of these services.
- Study further interference mitigation techniques to protect fixed services used extensively in the band 27.5-29.5 GHz.



## Agenda Item 1.6

“to consider the development of a regulatory framework for non-GSO FSS 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), in accordance with Resolution 159 (WRC-15)”

### ASMG Preliminary Position:

- Follow up studies, considering the following:
- Protection of FSS GSO networks according to Article (22)
- Review procedures for coordination trigger with respect to define epfd
- Protection of current services in subject frequency bands and ensure protection of nearby allocations.





## Agenda Item 7

“to consider possible changes, and other options, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, an advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution 86 (Rev.WRC-07), in order to facilitate rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit”



## Issue A

### ASMG Preliminary Position:

- Initial support to develop clear provision in RR with respect to NGSO in similar treatment with respect to GSO networks.
- Not to support first option, modification to 11.44
- Follow up studies results with emphasize on the Milestone approach and its ability to meet the following objectives:
  - Balancing the equitable access and spectrum efficiency with respect to radio spectrum and orbit resources.
  - Avoid any misuse for the filing procedures of NGSO networks
  - follow up with BR regarding software tools may be required to query and ensure notification and BIU of NGSO consultation.



## Issue B

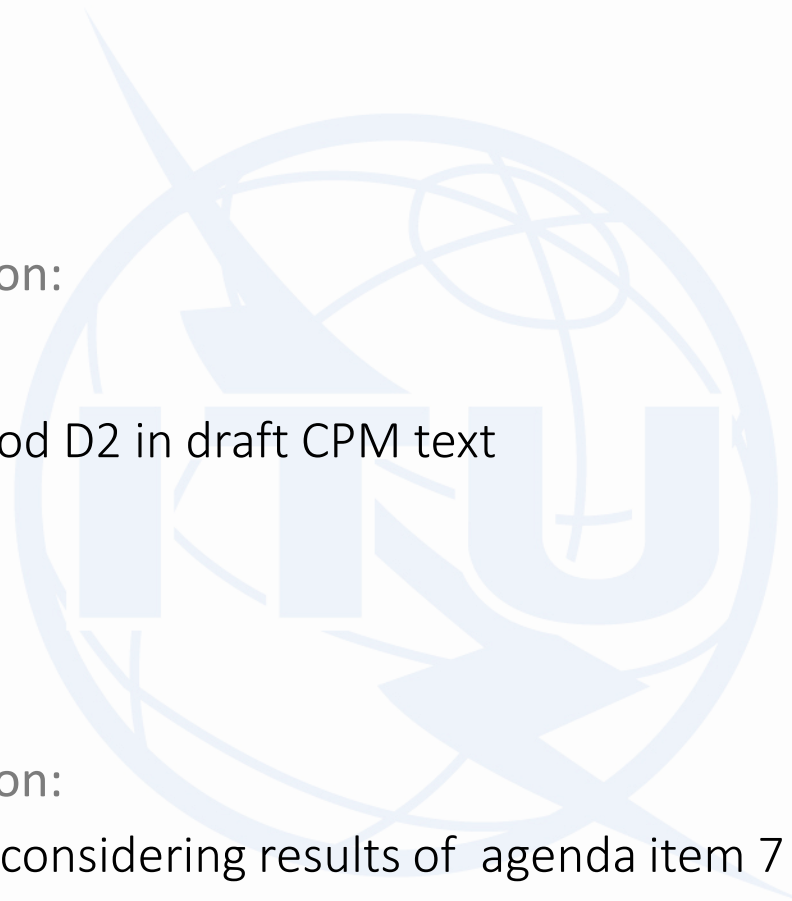
### ASMG Preliminary Position:

- Follow up studies.
- Initial support to apply coordination Arc between FSS and MSS and between MSS and MSS networks in the band 19.7-20.2 and 29.5-30 GHz, instead of DT/T (6%) approach.
- Continue the application of 9.41 with respect to networks exceeds DT/T 6%

## Issue C

### ASMG Preliminary Position:

- Initial support for all single methods proposed in draft CPM text for C1 to C7



## Issue D

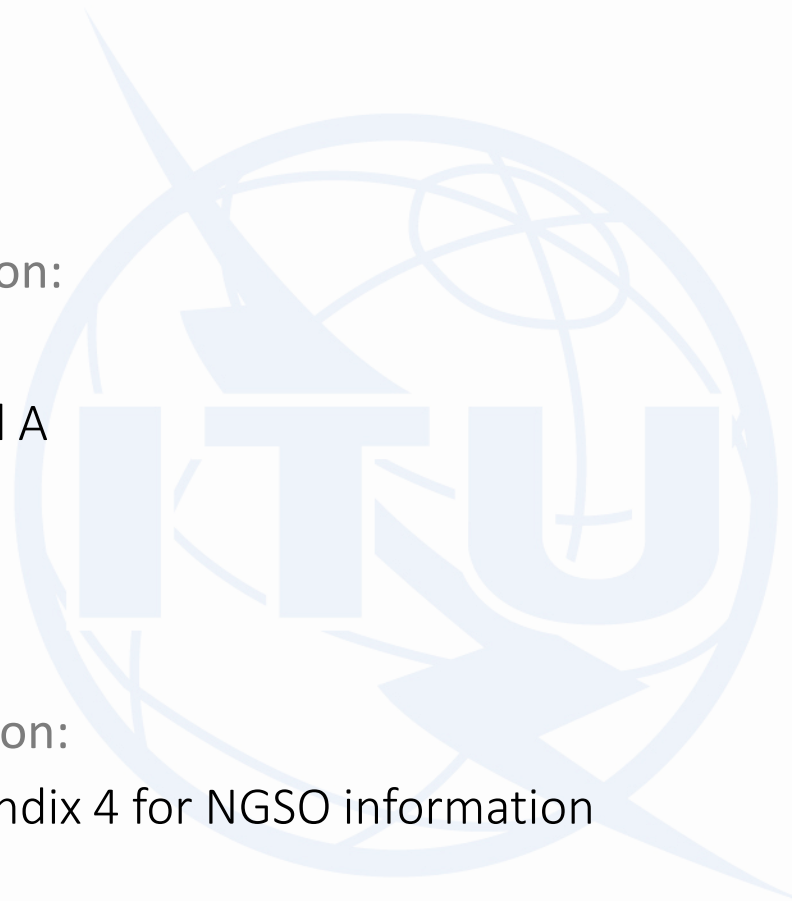
### ASMG Preliminary Position:

- Follow up studies
- Initial support to method D2 in draft CPM text

## Issue E & F

### ASMG Preliminary Position:

- Follow up studies and considering results of agenda item 7 Issue M



## Issue G

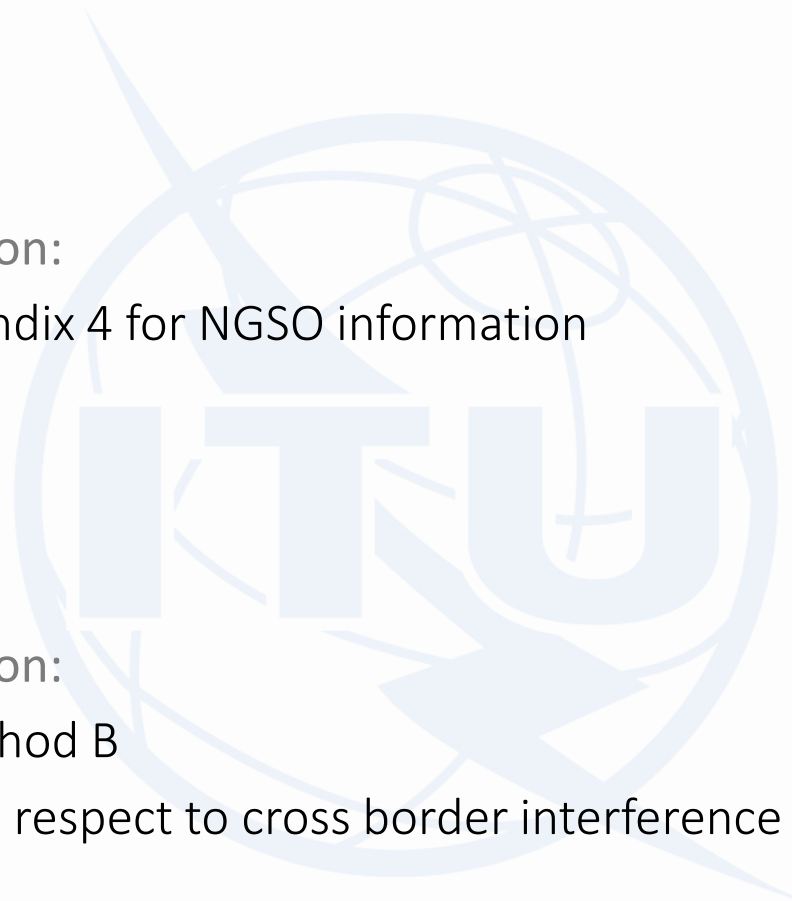
### ASMG Preliminary Position:

- Follow up studies
- Initial support Method A

## Issue H

### ASMG Preliminary Position:

- Support change Appendix 4 for NGSO information



## Issue I

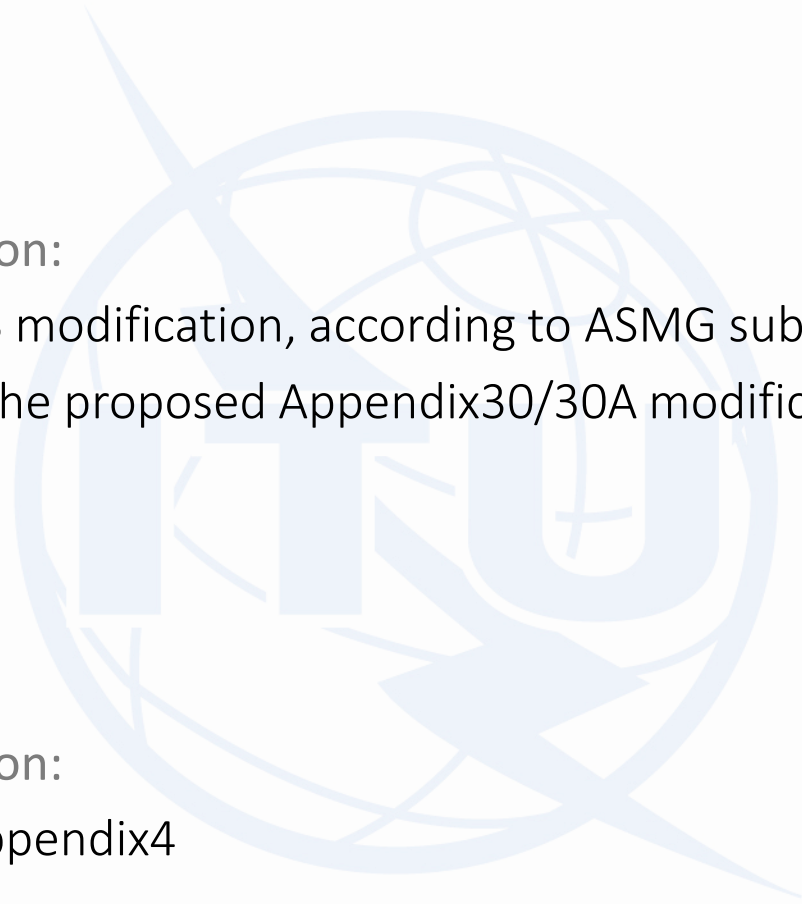
### ASMG Preliminary Position:

- Support change Appendix 4 for NGSO information

## Issue J

### ASMG Preliminary Position:

- Initial support for Method B
- Follow up studies with respect to cross border interference and guard bands



## Issue K

### ASMG Preliminary Position:

- Support Appendix 30B modification, according to ASMG submission.
- Follow up studies for the proposed Appendix30/30A modifications

## Issue L

### ASMG Preliminary Position:

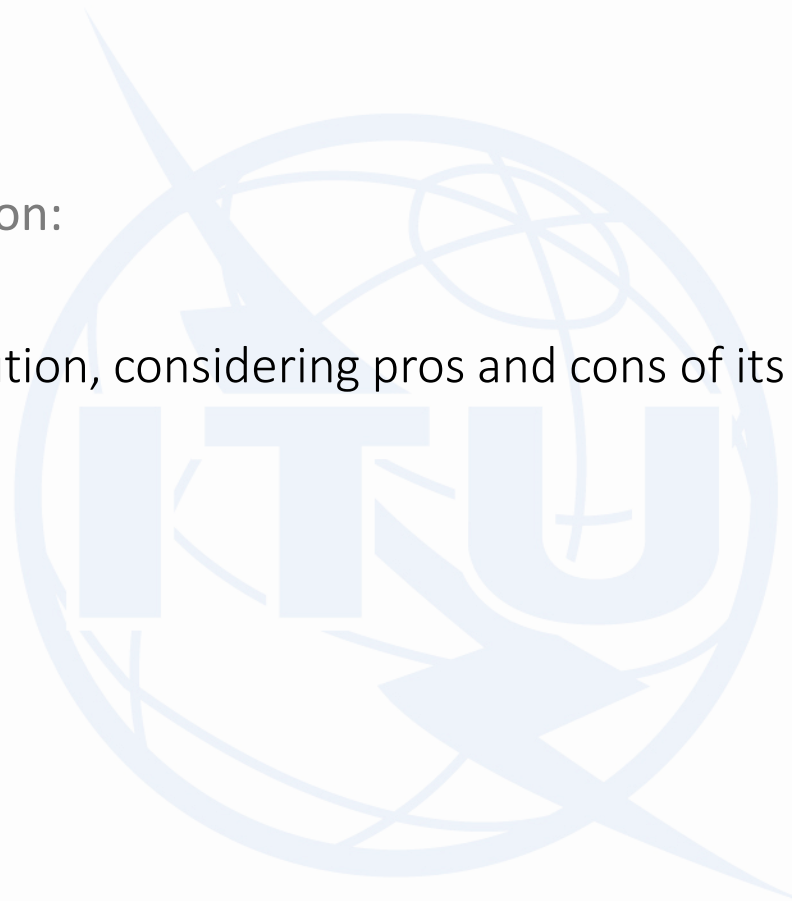
- Support updates to Appendix4



## Issue M

### ASMG Preliminary Position:

- Follow up studies
- Study proposed resolution, considering pros and cons of its applications







## Agenda Item 9.1, Issue 9.1.2

“Resolution 761 (WRC-15) – Compatibility of International Mobile Telecommunications and broadcasting-satellite service (sound) in the frequency band 1 452-1 492 MHz in Regions 1 and 3”

- ASMG Position:
- No restrictions on the use of IMT applications for the frequency band 1452-1492 MHz.
- No change to the ITU RR for protection for Broadcasting Satellite Service with proposing setting PFD limits on BSS in Article 21 of the RR or to 5.345 AA of RR to ensure IMT protection



## Agenda Item 9.1, Issue 9.1.3

“Resolution 157 (WRC-15) – Study of technical and operational issues and regulatory provisions for new non-geostationary-satellite orbit systems in the 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”

ASMG Preliminary Position:

- Support No Change to Radio Regulations



## Agenda Item 9.1, Issue 9.1.9

“Resolution 162 (WRC-15) – 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).”

ASMG Preliminary Position:

- Initial support to FSS allocation in 51.4-52.4, that is limited to FSS feeder links.
- Considering results of studies in AI1.13



# Chapter 4

## Science services

(Agenda Items: 1.2, 1.3, 1.7)



## Agenda Item 1.2

“to consider in-band power limits for earth stations operating in the mobile-satellite service, meteorological-satellite service and Earth exploration-satellite service in the frequency bands 401-403 MHz and 399.9-400.05 MHz, in accordance with Resolution 765 (WRC-15)”

- ASMG Position:
- Supporting the ongoing studies in order to establish in-band power limits for earth stations operating in Mobile satellite service (MSS), Meteorological satellite service (MetSat) and Earth exploration service in the frequency bands 401-403MHz and 399.9-400.05MHz, in order to ensure the protection of the existing services without imposing any additional constraints in these services due to the massive usage of the fixed and mobile services in these frequency bands in the countries.
- Follow up the ongoing studies in the ITU-R.



## Agenda Item 1.3

“to consider possible upgrading of the secondary allocation to the meteorological-satellite service (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, in accordance with Resolution 766 (WRC-15)”

- ASMG Position:
- Due to the heavily used for the frequency band 460 – 470 MHz in the Arab countries for mobile and fixed services, so initially ASMG doesn't support the possible upgrading of the secondary allocation to the meteorological satellite service (space-to-earth) to primary status and a primary allocation to the Earth exploration satellite service (space-to-earth) in the frequency band 460-470MHz.
- Follow up studies under this agenda item and ensure the protection of the existing services.



## Agenda Item 1.7

“to study the spectrum needs for telemetry, tracking and command in the space operation service for non-GSO satellites with short duration missions, to assess the suitability of existing allocations to the space operation service and, if necessary, to consider new allocations, in accordance with Resolution 659 (WRC-15)”

- ASMG Position:
- No change to the RR based on the results of the current sharing studies for the candidate frequency bands, which confirmed that the space operations service and other existing services in that frequency bands could not be shared.



# Chapter 5

Maritime, aeronautical and amateur services

(Agenda items 1.1, 1.8, 1.9.1, 1.9.2, 1.10, 9.1 (issue 9.1.4))





## Agenda Item 1.1

- “to consider an allocation of the frequency band 50-54 MHz to the amateur service in Region 1, in accordance with Resolution 658 (WRC-15)”
- ASMG Position:
  - Some administrations support frequency allocation for amateur service within the band 50-54 MHz on an primary basis.
  - Some administration prefers to wait and follow up the studies at this stage.
  - Some administration doesn't support frequency allocation for amateur service within the band 50-54 MHz on an initial basis



## Agenda Item 1.8

- “to consider possible regulatory actions to support Global Maritime Distress Safety Systems (GMDSS) modernization and to support the introduction of additional satellite systems into the GMDSS, in accordance with Resolution 359 (Rev.WRC-15)”
- ASMG Position is to support:
  - reviewing the possible regulatory actions for modernization of GMDSS
  - adding new satellite systems to GMDSS with insuring compatibility with the current system without adding new constraints on the services on the proposed and the adjacent bands.
  - NOC to the frequency allocation table.
  - Following-up the on-going studies in ITU-R



## Agenda Item 1.9.1

- “to consider, based on the results of ITU-R studies: regulatory actions within the frequency band 156-162.05 MHz for autonomous maritime radio devices to protect the GMDSS and automatic identifications system (AIS), in accordance with Resolution 362 (WRC-15)”
- ASMG Position is to support:
  - Protection of GMDSS and AIS
  - Protection of the existing allocations without any additional constrains.
  - Regulating the use of AMRD (Group B) by identifying specific frequencies for its use and reviewing the use of a new numbering scheme different from those in the existing maritime mobile service



## Agenda Item 1.9.2

- “to consider, based on the results of 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), preferably within the frequency bands 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 messages (ASM) and AIS operations and not impose any additional constraints on existing services in these and adjacent frequency bands as stated in recognizing d) and e) of Resolution 360 (Rev.WRC-15)”
- ASMG Position is support :
  - Following-up the on-going studies in ITU-R and protecting the current usage of mobile service in the candidate bands without imposing any additional constraints on existing services in these and adjacent frequency bands as stated in recognizing d) and e) of Resolution 360 (Rev.WRC-15);



## Agenda Item 1.10

- “to consider spectrum needs and regulatory provisions for the introduction and use of the Global Aeronautical Distress and Safety System (GADSS), in accordance with Resolution 426 (WRC-15)”
- ASMG Position is to support:
  - Following-up the on-going studies in ITU-R and related results and ensuring the protection of existing services in the case of new allocations are required.



## Agenda Item 9.1, Issue 9.1.4

- “Resolution 763 (WRC-15) – Stations on board sub-orbital vehicles;”
- ASMG Position:
  - Support following-up on-going studies in ITU-R.



# Chapter 6

## General Issues

(Agenda items 2, 4, 9.1 (issues 9.1.6, 9.1.7), 10)



## Agenda Item 9.1, Issue 9.1.6

- “Resolution 958 (WRC-15) – Annex item 1) Studies concerning Wireless Power Transmission (WPT) for electric vehicles”
- ASMG Position:
  - Support the current studies to assess the impact of (WPT) for electric vehicles on radiocommunication services; and to study suitable frequency ranges which would minimize the impact on radiocommunication services from (WPT) for electrical vehicles.
  - Ensure the protection of the incumbent services and not add any additional constraints on these services.
  - Emphasize the importance of universally harmonized frequency bands to achieve a global standardization.





## Agenda Item 9.1, Issue 9.1.7

- “to Resolution 958 (WRC-15) – Annex item 2) Studies to examine: a) 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; b) 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)”
- ASMG Position:
  - Support introducing any possible additional measures in order to limit uplink transmissions of terminals to those authorized terminals.
  - Support Method B (new resolution) as a basis to satisfy this issue.
  - Support applying procedures to the fixed-satellite service similar to procedures applied in Article 23 to the broadcasting-satellite service.



## Cont. .... Agenda Item 9.1, Issue 9.1.7

- **“to Resolution 958 (WRC-15) – Annex item 2)....**
- ASMG Position:
  - Ensure the protection and respecting administrations rights regarding telecom market access by satellite services, and therefore satellite operators had to put forward all applicable efforts for positive dealing with those issues related to sovereignty of administrations. Otherwise, means that satellite services are in lower grade in importance when it comes to protection of administration sovereignty, and with respect to other telecom services or networks. Which also may require for those administrations to reconsider any satellite services radio spectrum allocation issues, including additional or protection to current allocation.



## Agenda Item 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, in accordance with Article 7 of the Convention”
- ASMG Position:
  - ASMG administrations are invited to study this matter to discuss it further in the next ASMG meeting based on proposals received at ASMG-23 (April 2018).