



3rd AFRICAN GROUP PREPARATORY MEETING FOR WRC-12

GENEVA, 9 NOVEMBER 2011

Organized by



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**3rd African Group
Preparatory Meeting
for WRC-12
(Geneva, 9 November 2011)**

ASMG Positions on the Agenda Items of the WRC-12

**Based on ASMG-15 Meeting
(Sharm El-Sheik, 1–5 Oct 2011)**

Arab Spectrum Management Group





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Arab Spectrum Management Group (ASMG)



- The ASMG was established by the **Arab Ministerial Council** for ICT to cooperate and collaborate in the field of Spectrum Management and preparation to Radio Conferences.
- The twenty two Arab States utilize this platform for the following major activities:-
 - Coordinate among the Member States on all issues related to the Spectrum Management, including sharing views on the emerging radio aspects.
 - Negotiating to develop **common Arab proposals** for the agenda items of World Radio Conferences (WRC) held every four years at the ITU.
 - Preparing common contributions for the meetings of the ITU-R Study Groups and Working Parties.



ASMG Organization Structure



Mr. Tariq Awadhi
Chairman



Mr. Mustafa Bessi
Vice Chairman



Dr. Saleh Werdani
Vice Chairman



Mr. Abdullah Al Muhemeed
Vice Chairman



Dr. Imad Youssef Hoballah
Vice Chairman



Mr. Abdulqader Ebrir
Vice Chairman

- ✓ Mr. Alwerdani, has recently been succeeded by Dr. Alsayed Azzouz (from Egypt)
- ✓ Mr. Ebrir, has recently been succeeded by Mr. Arouj (from Algeria)

ASMG WRC Preparations



- The ASMG during the ITU-R Study Cycle between the two WRC Conferences meets at least once every year.
- In the beginning of this Study Cycle, the ASMG:
 - Elects the ASMG Management Team when necessary
 - Assigns a **Chapter Rapporteur** for each of the CPM Report Chapters
 - Assigns **Coordinator** and Supporters for each of the WRC Agenda Items.
- During the ASMG meeting the team:
 - Considers the reports by each of the above Chapter Reporters & Agenda Item Coordinators as well as the other contributions from members sent to the meeting,
 - Discusses and analyses the different issues in relation to each of the WRC Agenda Items.
 - Updates the Common ASMG Positions from each of the WRC Agenda Items accordingly.



- After the last WRC-07, the ASMG has met five times, March 2008 in Abu Dhabi, March 2009 in Dubai, March 2010 in Tunisia, December 2010 in Beirut, and October 2011 in Sharm El-Sheik.
- As a result of these meetings, the following were the major activities in relation to WRC-12:
 - I. Study and Analysis of the agenda items of WRC-12,
 - II. Discussion of Possible Methods to satisfy these Agenda Items
 - III. Drafting Preliminary Positions for WRC-12 Agenda items
 - IV. Discussion, Exchange of Views, and Coordination with other Regional Groups (RCC, ATU, CEPT, etc.) and Organizations (SIG, ICAO, Amateur Radio Union, GSMA, etc.).
 - V. Developing ASMG Common Proposal for the Work of WRC-12

ASMG-15 Meeting, Sharm El-Sheik, 1-5 October 2011



- The ASMG held their fifth meeting since the WRC07, in Sharm El-Sheik (Egypt) during the period 1-5 October 2011.
- The main objective of the meeting was to: *develop the Arab Administrations Common Proposal for the Work of the WRC-12 based on the contributions submitted to the meeting and the results of the meeting discussions; while considering at the same time the Views and Positions of other Regional Groups and Organizations.*
- The meeting received 40 contributions, and was attended by approximately 130 participants.

ASMG-13 Meeting, Sharm El-Sheik, 1-5 October 2011



- Mr. Rancy, the Director of the BR, attended the meeting and provided explanation and verification of as required.
- The ASMG allocated one and half days of the meeting (3-4 October) for the ASMG coordination with other Regional Groups (APT, CITELE, & CEPT) in relation to the Work of WRC-12.
- In addition to two full sessions were given for other Organizations and Private Sector to present their views in relation to the Work of WRC-12.

The Bi-Regional WRC-12 Coordination Meetings with ASMG, Sharm El-Sheik, 3-4 October 2010



- The Bi-Regional WRC-12 coordination Meetings with ASMG were attended by APT, CEPT, and CITELE Regional Groups. Both ATU and RCC were not able to attend due to conflict of time with other Regional Activities around the same period.
- The main objective of the Bi-Regional Coordination Meetings between the ASMG and each of the three Regional Groups was to further explain the Regional positions on these agenda items and the reasoning behind them, with aim to consider the possibility to converge the different regional positions. The meetings focused on Agenda Items with higher priorities for discussion, which were identified before the meeting.
- During the above meetings, each of the Regional Groups (APT, ASMG, CEPT, and CITELE) presented their latest Positions for WRC-12 Agenda items . The floor was then open for any general questions or comments by the participants.



Ch	Agenda Item	Chapter Title	ASMG Rapporteur
1	1.3, 1.4, 1.9, 1.10	Maritime and Aeronautical Issues	Ms.Lilia Soussi (TUN)
2	1.14, 1.15, 1.21, 1.23	Radiolocation an Amateur Issues	Ms.Jenan Karam (LBN)
3	1.5, 1.8, 1.17, 1.20, 1.22	Fixed, mobile and Broadcasting Issues	Mr.Naser Alrashedi (UAE)
4	1.6, 1.11, 1.12, 1.16, 1.24	Science Services	Mr.Atef Aldeeri (SYR)
5	1.7, 1.13, 1.18, 1.25, 7	Satellite Issues	Mr.M. Suliman (EGY)
6	1.2, 1.19, 2, 4, 8.1, 8.2	Future Work Program and other issues	Mr. M. Abdel Hafez (SUD)

Agenda Item 1.2

- “Enhancing the international regulatory framework (Res. 951)”
- ASMG Position: Issues A and B (Method A1 & B1)
 - The Current Practice is sufficient to fulfill all efficiency and flexibility required, and there is no need to change the RR under this Agenda Item,
 - Hence the ASMG propose NOC at this WRC-12 under this Agenda Item for both Issues A and B (Method A1 & B1)
 - Moreover the ASMG do not exclude the option to continue the studies in order to meet the objective of Res. 951



Agenda Item 1.3

- “Unmanned aircraft systems (UAS)”



- ASMG Position :

- **Issue A (Satellite Component):** Use of the current AMS(R)S and MSS allocations for both links (UA to satellite and UACS (mobile and fixed) to satellite) (see Report ITU-R M.2205). Therefore no changes are required to the RR. (Method A1-A2)
- **Issue B (Terrestrial Component):** New AM(R)S allocation in all or portion(s) of the bands 5 000-5 150 MHz subject to satisfactory results of compatibility studies (see Report ITU-R M.[UAS-BANDS-NEW-ALLOC]), taking into account that the status of the sharing studies in the frequency band 5 030-5 091 MHz is more mature with respect to other bands

Agenda Item 1.3

- “Unmanned aircraft systems (UAS)”
- ASMG Position :
 - Both Issue A & B: No change to the Table of Frequency Allocations (RR Article 5) for frequency bands for which the studies have not been completed. This method is equally applied to the terrestrial and satellite components. (Method C)



Agenda Item 1.4

- “New aeronautical mobile (R) service (AM(R)S) systems in the bands 112-117.975, 960-1 164 & 5000 5030 MHz” (Res. 413, 417, & 420)
- ASMG Position:
 - Res. 413:
 - ITU-R studies indicate that no specific ITU material needs to be developed for the protection of analogue FM broadcasting receivers below 108 MHz from AM(R)S emission in the band 112–117.975 MHz. As a consequence Resolution 413 (Rev.WRC-07) is to be amended. (Method A)



Agenda Item 1.4, cont'

- Res. 417: (Method B)
 - Amend Resolution 417 (WRC-07) in order to
 - a) introduce operational and technical means to facilitate sharing with AM(R)S systems in the band 960-1 164 MHz, and
 - b) introduce e.i.r.p. limits on AM(R)S systems below 1 164 MHz to protect RNSS systems above 1 164 MHz.
 - In the addition that the original resolves 2 remains unchanged.
- Res. 420: (Method C1)
 - No changes to Article 5 of the Radio Regulations are required as a result of studies conducted within the ITU-R in response to Resolution 420 (WRC-07),
 - Also suppress Resolution 420 (WRC-07).

Agenda Item 1.5

- “Worldwide/Regional Harmonization of Electronic news gathering (ENG)” (Res. 954)
- ASMG Position:
 - Proposing a WRC Resolution. The Resolution instructs the BR to develop and make available at its website a database of frequency bands available for cross-border deployment in each country for ENG and other relevant information; and encourages administrations to provide their relevant information in this regard to the BR.
 - The Resolution invites the ITU-R to continue the studies towards harmonized tuning ranges for ENG equipment and systems as well as any necessary sharing criteria
 - In addition some administrations may include their countries’ names in a footnote, similar to footnote 5.296



Agenda Item 1.6

- “*spectrum use between 275 GHz and 3 000 GHz & the Free-space optical-links*” (Res. 950 & 955)

- ASMG Position:

- Issue A (Resolution 950 (Rev.WRC-07) addresses the frequency range between 275 and 3 000 GHz): (CPM Method)

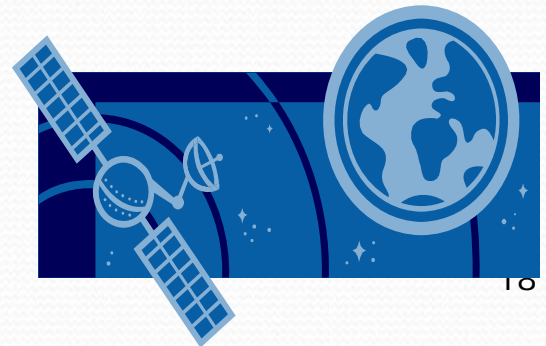


RR No. 5.565 would be modified to update the list of bands of interest to EESS, SRS, and RAS in the range 275-1 000 GHz. This modified footnote will also stress the interest of the passive services in all frequencies from 1 000-3 000 GHz, recognizing that sharing this frequency range with active services on the ground or in space should be possible without any constraints due to the extremely strong atmospheric absorption and the very narrow antenna beamwidths encountered in this range.

- Issue B (Resolution 955 (WRC-07)) considers possible procedures for free-space optical links): (CPM Method)
 - No change to the RR and consequential suppression of Res. 955 (WRC-07)

Agenda Item 1.7

- “Aeronautical mobile-satellite (R) service” (Res. 222)
- ASMG Position:
- Some administrations are supporting NOC under this Agenda Item (Method A), and
- Some Administrations are Supporting modification to Resolution 222 (Rev.WRC-07) to implement additional procedures supporting the provision of RR No. 5.357A with two distinct types of meetings - consultation and coordination-(Method B).



Agenda Item 1.8

- “Fixed service in 71-238 GHz” (Res. 731 & 732)
- ASMG Position: (Method A₁)
 - No Change to the Radio Regulations is required at the current time
 - Maintaining Resolutions 731 (WRC-2000) and 732 (WRC-2000) asking for future studies.



Agenda Item 1.9

- “Digital technologies for the maritime mobile service & Revising Appendix 17” (Res. 351)
- ASMG Position: (Method A1)
 - To modify Part A & B of RR Appendix 17 to promote the implementation of new digital technologies, while protecting existing applications,
 - Implement these modifications through appropriate transition period, not earlier than 2017.



Agenda Item 1.10



- “Safety systems for ships and ports” (Res. 357)
- ASMG Position:
 - Regulatory status of AIS 1 and AIS 2: (Method A2)
 - retaining the current allocation to the FS and the MS in the bands 156.8375-161.9625 MHz and 161.9875-162.0125 MHz;
 - a primary allocation to the MMS in the bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz;
 - adding RR No. 5.B110 in the bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz to allow use of aircraft stations for search and rescue operation and other safety related communication (see RR Appendix 18).
 - retaining current allocation for FS and LMS in Region 1 and retaining current allocation for FS, LMS and AMS in Regions 2 and 3 in the bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz through a new footnote No. 5.B110bis;

Agenda Item 1.10, Cont'

- “Safety systems for ships and ports” (Res. 357)
- ASMG Position:
 - Satellite-AIS : (Method B₁)
 - adding Secondary allocation to mobile satellite service (Earth-to-space)
 - Broadcasts of safety and security information for ships and ports: (Method C)
 - It is proposed to make an exclusive primary allocation to the MMS in the band 495–505 kHz in all three regions
 - RR Appendix 18: (Method D₁)
 - It is proposed to make Changes to Designate of 2×400 kHz for digital band (800 kHz), 22 new single frequency channels and consideration of a man overboard channel.



Agenda Item 1.11

- “Space research service (Earth-to-space) within the band 22.55-23.15 GHz” (Res. 753)
- ASMG Position: (NOC)
 - No Change to RR under this Agenda Item, and Suppression to Res. 753.



Agenda Item 1.12

- “Interference resulting from aeronautical mobile service in the band 37-38 GHz” (Res. 754)
- ASMG Position: (Method A)
 - To exclude the aeronautical mobile service from this band, since studies have shown that there is difficulty for sharing between the aeronautical mobile service with the other services in this band.
 - suppression of Resolution 754 (WRC-07)



Agenda Item 1.13

“Broadcasting-satellite service and the associated feeder-link in the band 21.4-22 GHz in Region 1&3” (Res.551)

ASMG Position:

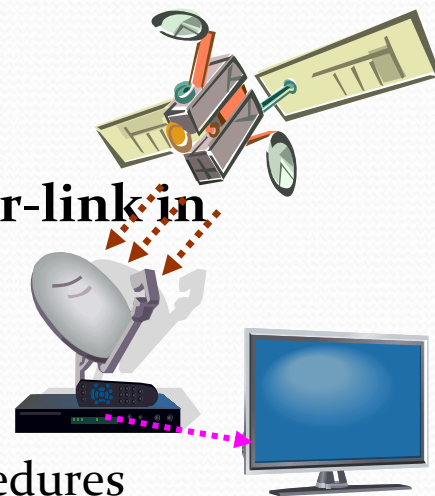
propose that the regulatory mechanism currently in force, i.e. procedures contained in RR Articles 9 and 11 be applied for the use of the above-mentioned frequency band (concept/principle of first-come first-served)

revising Resolution 49 (Rev.WRC-07),

proposes measures to improve the due diligence requirements currently contained in Res. 49 (Rev.WRC-07) to **obtain better coherence/consistency between networks recorded in the Master International Frequency Register (MIFR) and real satellites in operation**

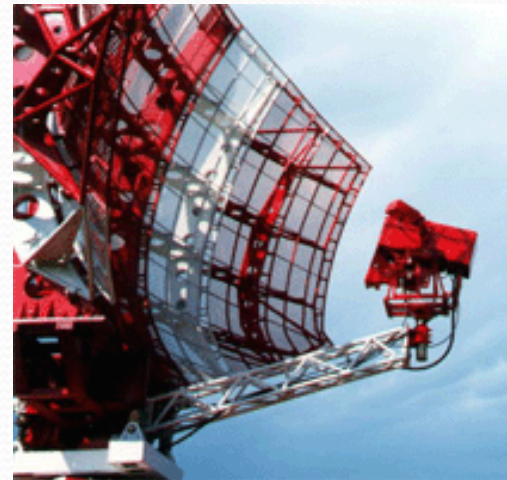
to limit the number of submissions by one administration (e.g 4 per year)

reduce the coordination arc from $\pm 16^\circ$ to $\pm [6]^\circ$



Agenda Item 1.14

- “Radiolocation service in the range 30–300 MHz” (Res. 611)
- ASMG Position: (Method D)
 - No change to RR Article 5 and suppression of Resolution 611 (WRC-07).



Agenda Item 1.15

- “Radiolocation service for oceanographic radar applications in the band 3-50 MHz” (Res. 612)

- ASMG Position:

- Support for allocation of RL for oceanographic radar, provided adequate protection to the existing services, and with out placing additional constraints on them, in some, or portions of the frequency bands

[3 155-3 200 kHz, 4 438-4 650 kHz, 5 060-5 450 kHz, 7 450-8 100 kHz, 9 040-9 400 kHz, 9 900-9 995 kHz, 12 100-12 230 kHz, 13 410-13 570 kHz, 13 870-14 000 kHz, 14 350-14 990 kHz, 15 800-16 350 kHz, 22 855-23 200 kHz, 24 000-24 890 kHz, 25 010-25 070 kHz, 25 210-25 550 kHz, 26 175-27 500 kHz, 39-39.986 MHz, 40.02-40.98 MHz and 41.015-47 MHz.]

- Also suppress Resolution 612 (WRC-07).



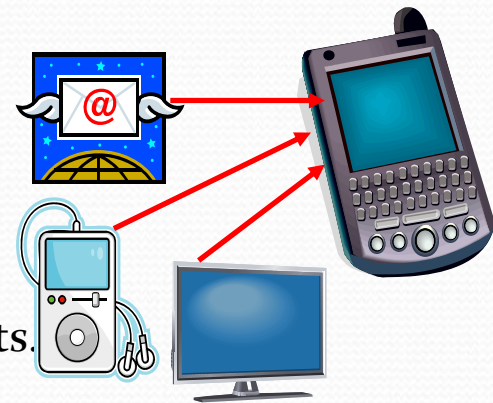
Agenda Item 1.16

- “Passive systems for lightning detection in the meteorological aids service, below 20 kHz” (Res. 671)
- ASMG Position:
 - May support a new allocation of frequency band 9-11.3 kHz to the MetAids under this agenda Item, with certain provisions/conditions,
 - No allocation should be made below 9 kHz, however administrations interested may wish to include themselves in footnote for use below 9kHz.



Agenda Item 1.17

- “Sharing between the mobile service and other services in 790-862 MHz in Regions 1&3”
- ASMG Position:
 - Many of the Arab Administrations are in the process of using the band 790-862 MHz for Mobile services (IMT).
 - Issue A (BS): Arab Administrations support No Change, and no additional protection requirements for Broadcasting Services to those provided in the GE-o6 Agreement,
 - Issue B (ARNS): Adequate technical criteria and regulatory procedures should be adopted in order to facilitate the coordination between the MS in Region 1 with the ARNS in countries mentioned in RR No. 5.312
 - Issue C (FS): support No Change, and No additional arrangements.
 - Mobile Allocation shall start from 2013.
 - Discussion is taking place on the extension of the Mobile Allocation to the band 694-790 MHz



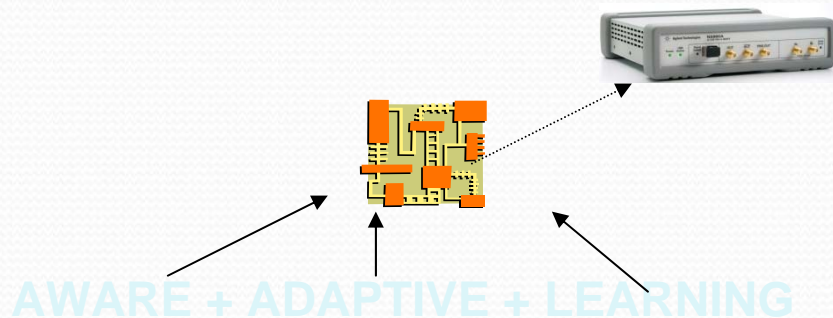
Agenda Item 1.18

- “Radio determination-satellite service (space-to-Earth) allocations in 2483.5-2500 MHz” (Res. 613)
- ASMG Position: (NOC)
 - No Change to the RR under this Agenda Items
 - Suppression of the Res. 613



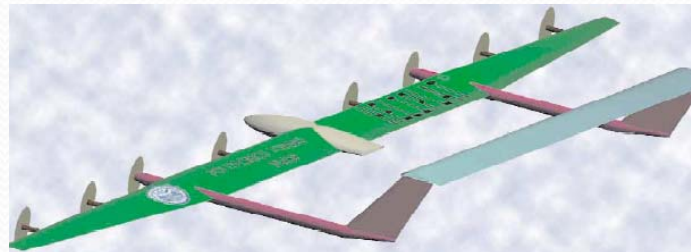
Agenda Item 1.19

- “Software-defined radio and cognitive radio systems” (Res. 956)
- ASMG Position:
 - **Issue A (SDR):** (Method A) No change to the Radio Regulations. Technical and operational considerations related to the SDR technologies implemented in any stations of a radio service would be addressed in ITU-R texts as appropriate.
 - **Issue B (CRS):** (Method B2) Develop a WRC Resolution providing guidance for further studies and guidance for the use of CRS and no other changes to the Radio Regulations



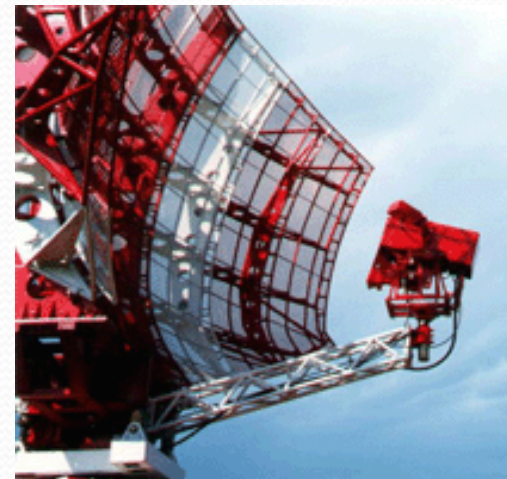
Agenda Item 1.20

- “Identifying two channels of 80 MHz each for HAPS in 5850 – 7075 MHz” (Res. 734)
- ASMG Position: (Method A)
 - Not to identify two channels for these links, given the large number the fixed and mobile services in the band 5850 – 7075 MHz.
 - Hence,
 - No Change to the RR under this Agenda Items
 - Suppression of the Res. 734



Agenda Item 1.21

- “Radiolocation service in 15.4-15.7 GHz” (Res. 614)
- ASMG Position:
- Support a new primary allocation for the RLS in the 15 GHz and suppress Resolution 614 (WRC-07).



Agenda Item 1.22

- “Emissions from short-range devices”
- ASMG Position: (Method B)
 - To keep the current practice with solutions from national or regional regulations and from relevant ITU-R Recommendations and Reports, as appropriate; and
 - develop a general WRC Resolution inviting the ITU-R to continue studying the regional and global harmonization of SRDs



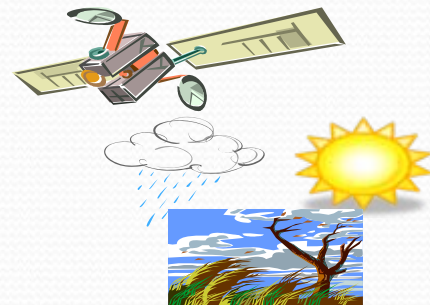
Agenda Item 1.23

- “15 kHz in parts of 415-526.5 kHz to the amateur service on a secondary basis”
- ASMG Position: (Method C)
 - No Allocation for Amateur in this band and hence No change to the Radio Regulations



Agenda Item 1.24

- “Non-geostationary meteorological satellites (s-E), in 7 850-7 900 MHz” (Res. 672)
- [ASMG Position: \(CPM Method\)](#)
 - Support Additional Primary allocation to Non-geostationary meteorological satellites (s-E) in 7 850-7 900 MHz. This is subject to Regulatory, procedural, Technical measures and conditions similar to those provided in Article 21 and Appendix 7 of the RR, as the ones imposed in the band 7750-7850 MHz.



Agenda Item 1.25

- “Additional allocations to the mobile-satellite service between 4 GHz and 16 GHz ” (Res. 231)
- ASMG Position:
 - NOC to the RR and suppress Res.231
 - To continue the studies – under New Agenda for WRC-15 - for possible additional MSS allocations in accordance to new Res. and study the candidate frequency in bands 10, 13, & 15 GHz that were proposed in the WP. The new study will look into bands above 16 GHz, in particular the bands:
 - 22-22.21 GHz
 - 22.5-23.6 GHz
 - 24.25-24.75 GHz
 - 25.25-25.5 GHz



Agenda Item 1.1, 2, 4, 7, & 8.1

ASMG Position:

- **The above Agenda Items are still under consideration by the ASMG, and the ARB Common Proposal in this regard will be communicated to the ITU shortly**

Agenda Item 8.2

ASMG Position:

- **ASMG Position on this regards are still under development, however there is discussion to support the following Items:**
 - I. to consider spectrum requirements and possible regulatory actions, including additional spectrum allocations to the mobile service on a primary basis to accommodate the development of IMT and other mobile (MS) broadband applications and technologies, taking into account the results of ITU-R studies;
 - II. to consider spectrum requirements and possible regulatory actions, including additional spectrum allocations to the mobile satellite service (MSS) on a primary basis to accommodate the urgent needs for spectrum by the MSS applications including the satellite component to the IMT and other satellite mobile broadband applications and technologies, taking into account the results of ITU-R studies;
 - III. to consider spectrum requirements and possible regulatory actions, including allocations, to support wireless avionics intra-communications (WAIC) systems, based on ITU-R studies in accordance with Resolution
 - IV. to conduct study with the aim to simplify and maintain the currency of the Radio Regulations

ASMG Views on the Structure of the WRC-12

- The ASMG-15 meeting considered the proposed structure of the WRC-12 resulting from the preliminary discussion of the 3rd Informal Meeting of the six Regional Groups during RAG-18.
- The WRC-12 Structure has been approved . However the relevant nominations are still under discussion in the GCC/ASMG.
- It is anticipated for the ASMG to have its view in terms of its nominations for chairmanship and Vice-chairmanship positions for the conference soon and communicate to the Chair of the Regional Informal Group and the ITU Secretariat.

THANK YOU!

**Represented by
Mr. Tariq Al Awadhi**

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