



ICAO POSITION FOR THE ITU WRC-2003



Why does ICAO need a position?

- ITU Radio Regulations (RR) need to ensure that the safety of civil aviation is not compromised**
- ITU RR shall not be in conflict with ICAO SARPS**
- Frequency allocations to aeronautical safety-of-life services shall be protected in conformity with internationally agreed requirements**



Where can I find ICAO position?

- ➔ **State letter E 3/5-00/101 December 2000**
- ➔ **Supporting information in “Handbook on Radio Frequency Spectrum Requirements for Civil Aviation including Statement of Approved ICAO Policies” (Doc 9718)**



WRC-2003 Agenda Items

Agenda Item 1.1

Requests from administrations to delete their country footnotes or have their country name deleted from footnotes, if no longer required, in accordance with Resolution 26 (Rev.WRC-97)

- ✈ **To support deletion of footnotes S5.181, S5.197 and S5.259 as access to these bands by the mobile service is not feasible and could create the potential for interference to important radionavigation systems used by aircraft at final approach and landing**
- ✈ **To support deletion of S5.203 at WRC-2003 and no change to S5.203A (to be deleted at WRC2006) to enable full use of the band 136-137 MHz for AM(R)S communications**

WRC-2003 Agenda Items (cont.)

Agenda Item 1.1 (cont.)

- ✈ **To support the cessation of all fixed services in the band 1 559 - 1 610 MHz as of 2005 in order to remove the interference caused by the fixed service to essential aeronautical radio navigation functions and to permit the full utilisation of GNSS services to aircraft on a global basis**
- ✈ **To support deletion of footnote and S5.439 as a measure to protect safety-critical operation of radio altimeters in the band 4 200 - 4 400 MHz**



WRC-2003 Agenda Items(cont.)

Agenda item 1.3

To consider identification of globally/regionally harmonised bands, to the extent practicable, for the implementation of future advanced solutions to meet the needs of public protection agencies, including those dealing with emergency situations and disaster relief, and to make regulatory provisions, as necessary, taking into account

Resolution 645/[GT PLEN-2/5] (WRC - 2000)

- ✈ Assist in the identification of frequencies and bands for use in the situations envisaged, provided the use in accordance with the provisions in the Radio Regulations, and does not cause interference to operational aeronautical radio services. In particular, current ICAO Search and Rescue (SAR) procedures should not be affected.**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.4

To consider the results of studies related to Resolution 114 (WRC-95), dealing with the use of the band 5 091-5 150 MHz by the fixed-satellite service (Earth to Space) (limited to non-GSO MSS feeder links), and review the allocation to the aeronautical radionavigation service and the fixed-satellite service in the band 5 091 - 5 150MHz

- ✈ No change to the footnote S5.444 and S5.444A
(Further material to be presented when results of studies are available)**

WRC-2003 Agenda Items (cont.)

Agenda Item 1.5

To consider, in accordance with Resolution 736/[GT PLEN-2/1] (WRC-2000), regulatory provisions and spectrum requirements for new and additional allocations to the mobile, fixed, Earth exploration-satellite and space research services, and to review the status of the radiolocation service in the frequency range 5 150 - 5 721MHz, with a view to upgrading it, taking into account the results of ITU-R studies



WRC-2003 Agenda Items (cont.)

Agenda Item 1.5 Continued

- **Accept the upgrading of the radiolocation service to primary status in the band 5 350 - 5 470MHz only on the express condition that no interference be caused to the ARNS service operating in accordance with S5.449, and that no protection be required from the ARNS to the radiolocation service, as agreed between administrations taking account of relevant ITU-R recommendations**
- **No further changes to the allocations to the bands 5 350 - 5 470 MHz**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.6

To consider regulatory measures to protect feeder links (Earth-to-space) for the mobile-satellite service which operate in the band 5 150 - 5 250MHz, taking into account the latest ITU-R Recommendations (for example, Recommendations ITU-R S.1426, ITU-R S.427 and ITU-R M.1454

- ✈ Not to oppose the deletion of the allocation to the aeronautical radionavigation service in the band 5 150 - 5 250MHz on the grounds that, due to use by a number of radio services, it can no longer support the safe and interference-free operation of navigation systems for civil aviation**

WRC-2003 Agenda Items (cont.)

Agenda Item 1.8

To consider issues related to unwanted emissions:

- ① Consideration of the results of studies regarding the boundary between spurious and out-of-band emissions, with the view to including the boundary in Appendix S3;**
- ② Considerations of the results of studies, and proposal of any regulatory measures regarding the protection of passive service from unwanted emissions, in particular from space service transmissions, in response to recommends 5 and 6 of Recommendation 66 (Rev. WRC-2000)**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.8 Continued

- ✈ **Any revisions to the values contained in Appendix S3 to the Radio Regulations, or other regulatory provisions on unwanted emissions, should not invalidate the value for aeronautical radio system, as expressed in ICAO Annex 10, and other relevant aeronautical documents**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.9

To consider Appendix S13 and Resolution 331 (Rev. WRC-97) with a view to their deletion and, if appropriate, to consider related changes to Chapter SVII and other provision of the Radio Regulations, as necessary, taking into account the continued transition and introduction of the Global Maritime Distress and Safety System (GMDSS)

- Any proposed changes to Appendix S13 and related changes to Chapter SVII must be considered carefully against requirements of the aeronautical mobile (R) Service, and applicable ICAO Annexes.**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.11

To consider possible extension of the allocation to the mobile-satellite service (Earth-to-Space) on a secondary basis in the band 14-14.5 GHz to permit operation of the aeronautical mobile-satellite service as stipulated in Resolution 216 (Rev. WRC-2000)

- ✈ Provide support where applicable to the extension of this allocation to include the aeronautical satellite service**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.14

To consider measures to address harmful interference in the bands allocated to the maritime mobile and aeronautical mobile (R) Services, taking into account Resolutions 207 (REV. WRC-2000) and 350/[COM5/12] (WRC-2000) and to review the frequency and channel arrangements in the maritime MF and HF bands concerning the use of new digital technology, also taking into account Resolution 347 (WRC-97)

- ✈ To support regulatory provisions, actions by administrations, and the implementation of recommended measures and techniques, aimed at reducing this threat to the safety of air operations**

WRC-2003 Agenda Items (cont.)

Agenda Item 1.15

To review the result of studies concerning the radionavigation-satellite service in accordance with Resolution 604/[COM5/16] (WRC-2000), 605/[COM5/19] (WRC-2000) and 606/[COM5/20] (WRC-2000)

- To support an appropriate value for a pfd limit for the aggregate interference of all RNSS systems in the band 1 164 - 1 215 MHz as a necessary protection for important radionavigation systems providing safe separation to aircraft in flight, and to support the incorporation of the agreed pfd limit within an adequate regulatory framework having full mandatory force.



WRC-2003 Agenda Items (cont.)

Agenda Item 1.15 Continued

- ✈ **To support the need for a pfd limit for RNSS in the band 1 215 - 1 300 MHz as a necessary protection for important radionavigation systems providing safe separation to aircraft in flight, and to support the incorporation of the agreed pfd limit within adequate regulatory framework having full mandatory force.**

WRC-2003 Agenda Items (cont.)

Agenda Item 1.16

To consider allocations of a world-wide basis for feeder links in bands around 1.4 GHz to the non-GSO MSS with the service links operating below 1 GHz, taking into account the results of ITU-R Studies conducted in response to Resolution 127 (Rev. WRC-2000), provided that due recognition is given to the passive services, taking into account No. S5.340

- ✈ Any suggestion for the sharing of aeronautical bands with NGSO feeder links under this Agenda Item can only be considered on the basis of agreed studies, which take into account the present and expected future use of the band by aviation, and the constraints applied to this use.**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.17

To consider upgrading the allocation to the radiolocation service in the frequency range 2 900 - 3 100 MHz to primary

- Any upgrading of the radiolocation service to primary status in bands allocated to aeronautical services must ensure the provision of adequate measures to continued protection of aeronautical services, present and future. In particular, the allocation should be made on the conditions of non-interference to , and no protection from, the radionavigation service.**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.20

To consider additional allocations on a world-wide basis for the non-GSO MSS with service links operation below 1GHz, in accordance with resolution 214 (Rev. WRC-2000)

- ➔ Maintain all aeronautical allocations below 1 GHz without change and taking account of the ICAO position Agenda item 1.1 in regard to S5.181, S5.197 and S5.259**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.22

To consider progress of ITU-R studies concerning future development of IMT-2000 and systems beyond IMT-2000, in accordance with Resolution 228/[GT PLEN-2/3] (WRC-2000)

- ✈ To oppose any proposed new allocation to mobile service or other services, in bands between 2 70 and 3 400 MHz which are allocated or used by aeronautical radionavigation services, as no rigorous and comprehensive compatibility studies have yet been accepted by international aviation. Such studies must take account of all the technical and operational aspects related to the use of these of aircraft preparing to land. The case for sharing on any basis must also be supported by an analysis which is satisfying the ICAO safety requirements.**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.28

To permit the use of the band 108 - 117.975 MHz for the transmission of radionavigation satellite differential correction signals by ICAO standard ground-based systems

- ✈ **Support an allocation permitting the use of the band 108 - 117.975 MHz for the transmission of ICAO standard GNSS augmentation systems**
- ✈ **Ensure conformity with the ITU-R Recommendation IS.1009 regarding compatibility with the FM broadcast services in the band 87.5 - 108 MHz**



WRC-2003 Agenda Items (cont.)

Agenda Item 1.31

To consider the additional allocations to the mobile-satellite service in the 1-3 GHz band, in accordance with Resolution 226/[COM5/29] (WRC-2000) and 227/[com5/30](WRC-2000)

- ✈ **Oppose proposals for an allocation to the mobile satellite service in any of the ARNS bands between 1 and 3 GHz until a full consideration of the aviation use, and sharing studies where appropriate, have been completed and satisfy ICAO requirements**

- ✈ **Support the protection of aeronautical telemetry applications and their continued use in band 1 425 - 1 535 MHz**



WRC-2003 Agenda Items (cont.)

Agenda Item 2

To examine the revised ITU-R recommendation incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution 28 (Rev. WRC-2000), and to decide whether or not to update the corresponding references in the Radio Regulation in accordance with principles contained in the Annex to Resolution 27 (Rev.WRC-2000)

- ✈ To support the policy of linked reference in respect of RR S34.1 for ELTs**



WRC-2003 Agenda Items (cont.)

Agenda Item 7.2

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, taking into account Resolution 801/[GT PLEN-2/6] (WRC-2000)

- ✈ To support the deletion of footnote S5.203A by WRC-2006.**
- ✈ To support the inclusion in the agenda of WRC-2006 of an item addressing the review of results of studies conducted in accordance with resolution 222 (WRC-2000)**