



Summary

- Brief summary of CPG PTA
- Scientific Issues
 - Al 1.11: New EESS (telecommand) allocation 7-8 GHz
 - Al 1.12: New EESS (active) allocaiton 8.7-10.5 GHz
 - Al 1.13: Review of RR. No. 5.268 and allow SRS for proximity operations.
- PPDR Issues
 - Al 1.3: Review and Revise Resolution 646 for broadband PPDR
 - Al 9.1.7: Study spectrum management guidelines applicable to PPDR operations



The work of CPG-PTA

Responsibilities of the CPG PTA

- Al 1.3 Review and revise Resolution 646 for Broadband PPDR;
- Al 1.11 New EESS allocation in the 7-8 GHz;
- Al 1.12 New EESS (active) allocation in the 8.7-10.5 GHz;
- Al 1.13 Review of Footnote 5.268 and SRS (space-to-space) Operations;
- Al 1.14 On the feasibility of Continuous Reference Time-Scale;
- Al 2 Examine the revised ITU-R Recommendations incorporated by reference;
- Al 4 Revise, Replace or Abrogate resolutions and recommendations of previous conferences;
- Al 8 Deletion of Country footnotes or country name in footnotes;
- Al 9.1.4 Updating and Rearranging certain parts of the Radio Regulations;
- Al 9.1.6 Review of the definition of FS, Fixed and Mobile Station;
- Al 9.1.7 Updating BR Data Base with available frequencies for PPDR;
- Al 9.1.8 Regulatory aspects of nano and pico satellites;

Al 10 Future Agenda Items.



Issue: to consider a primary allocation for the Earth Exploration-Satellite Service (Earth-to-space) in the 7-8 GHz range, in accordance with Resolution 650 (WRC-12).

Preliminary CEPT position for AI 1.11

CEPT supports the on-going studies with a view of having a primary allocation to EESS(E-s) in the 7-8 GHz range while ensuring an adequate protection of other space and terrestrial services in the 7-8 GHz band, and in particular of the Space Research Services (SRS) within the band 7 145 – 7 235 MHz.

Other frequencies in the range 7-8 GHz should be considered if sharing with SRS is not found to be feasible.

Coordinator: Elena Daganzo-Eusebio, ESA

European Interest: Earth Observation Satellites, ESA

ITU: Working Party 7B



WRC-15 AI 1.11 – ITU-R Resolution 650

Resolution 650

resolves to invite ITU-R

- to **study spectrum** requirements in the 7-8 GHz range for **EESS (Earth-to-space) telecommand operations** in order to complement telemetry operations of EESS (space-to-Earth) in the 8 025-8 400 MHz band;
- to **conduct compatibility studies between EESS** (Earth-to-space) systems and existing services, **with priority to the band 7 145-7 235 MHz**, and then within other portions of the 7-8 GHz range only if the band 7 145-7 235 MHz is found not to be suitable;
- to complete the studies as a matter of urgency, taking into account the present use of the allocated band, with a view to presenting, at the appropriate time, the technical basis for the work of WRC-15,

resolves to invite WRC-15

to review the results of these studies with a view to providing a worldwide primary allocation to EESS (Earth-to-space) in the range 7-8 GHz with priority to the band 7 145-7 235 MHz,



Issue: to consider an extension of the current worldwide allocation to the Earth exploration-satellite (active) service in the frequency band 9 300-9 900 MHz by up to 600 MHz within the frequency bands 8 700-9 300 MHz and/or 9 900-10 500 MHz, in accordance with Res 651 (WRC12)

Preliminary CEPT position:

CEPT currently supports allocation of an additional radio frequency spectrum of 600 MHz to Earth Exploration Satellite Service (active) with a [primary] status. Stations in the Earth exploration-satellite service (active) shall not cause harmful interference to, nor claim protection from, stations operating in radio determination services.

Provisions for the protection of space research service and radio astronomy service from unwanted emissions from EESS (active) need to be implemented.

Coordinator: Hans-Peter Kuhlen, Germany

European Interest: SAR, weather, evolution of EC GMES/Kopernikus

ITU: Working Party 7C



WRC-15 AI 1.12 – ITU-R Resolution 651

Resolution 651 Resolves that WRC-15 consider:

the **possible extensio**n of the current worldwide allocation to the EESS (active) in the frequency band 9 300-9 900 MHz by up to 600 MHz on a primary and/or secondary basis, as appropriate, within the frequency range 8 700-9 300 MHz and/or 9 900-10 500 MHz while ensuring protection of existing services and taking due account of the safety services allocated in the frequency band 9 000 to 9 300 MHz,

Invites ITU-R to conduct and complete for WRC-15 compatibility studies addressing:

- EESS (active) and existing services in the frequency bands 8 700-9 300 MHz and 9 900-10 500 MHz in order to ensure the protection of the existing services, taking into account the constraints as per No. 5.476A;
- unwanted emissions from stations operating in the EESS (active) within the frequency band 8 700-9 300 MHz into stations of the space research service operating in the frequency band 8 400-8 500 MHz;
- unwanted emissions from stations operating in the EESS (active) within the frequency band 9 900-10 500 MHz into stations of the radio astronomy service, space research service (passive) and EESS (passive) operating in the frequency band 10.6-10.7 GHz,



Issue: to review No. 5.268 with a view to examining the possibility for increasing the 5 km distance limitation and allowing space research service (space-to-space) use for proximity operations by space vehicles communicating with an orbiting manned space vehicle, in accordance with Resolution 652 (WRC-12)

Preliminary CEPT position:

CEPT supports the removal of the distance limitation within RR No. 5.268 while keeping existing pfd limits and allowing space research service (space-to-space) use for proximity operations by space vehicles communicating with an orbiting manned space vehicle

Coordinator: Thibaut Caillet, France

European Interest: Space Missions and Operations, EVA: ESA

ITU: WP7B



WRC-15 AI 1.13 - ITU-R Resolution 652

Resolution 652 resolves to invite ITU-R

- to **conduct sharing studies** between SRS (space-to-space) systems communicating in proximity with orbiting manned space vehicles and systems operating in the fixed and mobile (except aeronautical mobile) services in the band 410-420 MHz;
- 2 to complete the studies, as a matter of urgency, taking into account the present use of the allocated band, with a view to presenting, at the appropriate time, the technical basis for the work of WRC-15,

resolves to invite WRC-15

- to review No. 5.268, taking into account the results of ITU-R studies, including the possible removal or relaxation of the 5 km distance limitation without modifying the current pfd limits;
- to review No. 5.268 to allow more general use of the 410-420 MHz band for SRS (space-to-space) systems beyond extra-vehicular activities,



Issue: to review and revise Resolution 646 (Rev. WR-12) for broadband public protection and disaster relief (PPDR), in accordance with Resolution 648 (WRC12);

Preliminary CEPT Position:

CEPT supports studies on the revision of Res. 646 in accordance with Res. 648.

Regarding the question of frequency ranges to be identified in Region 1, specific account should be given to the requirements of broadband PPDR. These ranges can then be compared within the ITU process to facilitate regional or worldwide interoperability and to maximise economies of scale and the consequential effect on any revisions needed in Res. 646.

CEPT is of the view, that any action at WRC-15 needs to reflect that PPDR related radiocommunication matters are an issue of sovereignty of the member states, and that PPDR requirements may vary to a significant extent from country to country. Therefore CEPT will consider future harmonization of PPDR only, if the action is flexible enough to consider different national circumstances such as the PPDR scenarios, the amount of available spectrum and the type of network which may be a dedicated, a commercial or a hybrid solution.



WRC-15 AI 1.3 – ITU-R Resolution 648

Coordinator: Andrew Gowans, UK

European Interest: National emergency and disaster relief services, FM49

ITU-R: WP5A

Resolution 648:

"resolves to invite WRC-15

to consider the studies [...] on broadband PPDR and take appropriate action with regard to revision of Resolution 646 (Rev.WRC-12),

invites ITU-R

to study technical and operational issues relating to broadband PPDR and its further development, and to develop recommendations, [...]:

- technical requirements for PPDR services and applications;
- the evolution of broadband PPDR through advances in technology;
- the needs of developing countries"



Issue: Resolution 647 (Rev. WRC-12) Spectrum management guidelines for emergency and disaster relief radiocommunication.

Preliminary CEPT Position

CEPT recognizes the importance of radiocommunications for use in emergency and disaster relief situations, but considers also that spectrum requirements for these purposes are fully covered by WRC-15 Agenda item 1.3 (Review of Resolution 646). It is further recognized that the 2006 version of the ITU Handbook on emergency and disaster relief and its ITU-R Special Supplement is appropriate and contains still valid information, which need further amendment based on relevant ITU-R studies after WRC-15, if considered necessary.

CEPT is of the view that the database maintained by the BR, which is requested to contain all frequencies available for use in emergency and disaster relief is not appropriate and shall be limited to maintaining the list of focal points as already contained in the BR database.

Consequently CEPT supports that Resolution 647 (WRC12) is to be suppressed.



WRC-15 AI 9.1.7 – ITU-R Resolution 647

Coordinator: Andrew Gowans, UK

European Interest: National emergency and disaster relief services, FM49

ITU-R: WP1B

Resolution 647:

resolves

- to encourage administrations to communicate to BR, [...],
 the frequencies available for use in emergency and disaster relief;
- 2 to reiterate to administrations the importance of having frequencies available for use in the very early stages of humanitarian assistance intervention for disaster relief,

instructs the Director of the Radiocommunication Bureau

to continue to assist Member States with their emergency communication preparedness activities by maintaining the database of currently available frequencies for use in emergency situations, which are not limited to those listed in Resolution 646 (Rev.WRC-12), and by issuing an appropriate listing, [...]



End of presentation

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