

## RESOLUTION 648 (WRC-12)

### **Studies to support broadband public protection and disaster relief**

The World Radiocommunication Conference (Geneva, 2012),

*considering*

- a) that Resolution **646 (Rev.WRC-12)** encouraged administrations, for the purpose of achieving regionally harmonized frequency bands, to consider certain identified frequency bands on a regional basis for public protection and disaster relief (PPDR) solutions;
- b) that the scenarios for operational requirements for PPDR activities have undergone changes since 2003;
- c) that the demand for global development and enhancement of PPDR applications for public protection requirements has shown significant increase since 2003, in order to enable more efficient and more effective responses to both natural and man-made disasters, in addition to responding to routine daily events;
- d) that there has been remarkable growth in the data-traffic demand for broadband mobile public protection applications, including real-time mobile video applications, and for safety applications, and this tendency will continue to increase on a worldwide basis;
- e) that these demands are leading to the development of broadband PPDR technologies and applications;
- f) that the benefits of regionally or internationally harmonized frequency bands for PPDR include:
  - i) economies of scale and lower costs for implementing specialized systems for PPDR;
  - ii) interoperability of systems on a regional and worldwide basis;
  - iii) facilitation of local, regional and world planning and coordination activities in spectrum use;
- g) that significant economic and service interoperability benefits are known to accrue from the adoption of harmonized frequency bands;
- h) that there is increased potential for cooperation among public protection entities from various countries during incidents of criminal activity spanning multiple countries;
- i) that the ongoing development of various broadband technologies including IMTs can be suitable to support or complement advanced applications required for PPDR,

*noting*

- a) Report ITU-R M.2033, on radiocommunication objectives and requirements for public protection and disaster relief;
- b) Recommendation ITU-R M.1826, on harmonized frequency channel plan for broadband public protection and disaster relief operations at 4 940-4 990 MHz in Regions 2 and 3;
- c) draft new Recommendation ITU-R M.2015, on frequency arrangements for public protection and disaster relief (PPDR) radiocommunication systems in UHF bands in accordance with Resolution **646 (Rev.WRC-12)**;

d) draft new Recommendation ITU-R M.2009, on radio interface standards for use by public protection and disaster relief operations in some parts of UHF bands in accordance with Resolution **646 (Rev.WRC-12)**;

e) the changes that have occurred in the requirements for PPDR applications and the emerging demand for broadband PPDR applications, including high-speed data, video and multimedia,

*recognizing*

a) that many new PPDR applications and scenarios, in particular the need for mobile video by PPDR organizations, were not envisaged during WRC-03;

b) that it is timely to review Resolution **646 (Rev.WRC-12)** in order to consider the future direction of spectrum needs of public safety and disaster management agencies,

*resolves to invite WRC-15*

to consider the studies in *invites ITU-R* below 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, as required, on:

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

*invites administrations*

to participate in the studies by submitting contributions to ITU-R.