

**1st ITU INTER-REGIONAL WORKSHOP
ON WRC-15 PREPARATION
(Geneva, 4 – 5 December 2013)**

Mobile and Amateur Issues

Panel-1 Discussions on WRC-15 agenda item 1.3

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WORKSHOP ON WRC-15
PREPARATION**

**GENEVA, SWITZERLAND
4-5 DECEMBER 2013**

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Outline

- WRC-15 agenda item 1.3
- Motivation
- Organization of the work in WP 5A
- Status of studies
- References

WRC-15 agenda item 1.3

- to review and revise [Resolution 646 \(Rev. WRC-12\)](#) for broadband public protection and disaster relief (PPDR), in accordance with Resolution 648 (WRC-12);
 - [Resolution 648 \(WRC-12\)](#): Studies to support broadband public protection and disaster relief.
- Responsible Group: **WP 5A**
- Contributing Groups: **WP 5B, WP 5C, WP 5D**
- Interested Groups: (WP 1B), (WP 4A), (WP 4B), (WP 4C), (WP 6A), (WP 7B), (WP 7C), (WP 7D).

Studies to support broadband public protection and disaster relief

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,

Motivation

- The original Resolution 646 (WRC-03) – Public Protection and Disaster Relief (PPDR), 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.
- 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 daily events.
- There has been remarkable growth in the data-traffic demand for broadband mobile public protection applications, including real-time mobile video applications and these demands are leading to the development of broadband PPDR technologies and applications.
- There are benefits to regionally or internationally harmonized frequency bands for PPDR.

Relevant Resolutions

- [Resolution 647 \(Rev.WRC-07\)](#) calls upon the ITU-R to develop a [database of frequencies](#) used for emergency and disaster relief operations (which is a subset of PPDR).
- [Resolution 646 \(Rev.WRC-12\)](#) addresses the larger category of PPDR and encourages administrations to consider identified frequency bands/ranges or parts thereof when undertaking their national planning for the purposes of achieving regionally harmonized frequency bands/ranges for advanced PPDR solutions.
- [Resolution 644 \(Rev.WRC-12\)](#) on radiocommunication resources for early warning, disaster mitigation and relief operations resolves ITU-R to continue to study, as a matter of urgency, those aspects of radiocommunications/ICT that are relevant to early warning, disaster mitigation and relief operations.

Work in WP 5A

- Work being conducted within WG5A-3 chaired by Amy Sanders, USA
- The main activity are:
 - Development of draft CPM text for agenda item 1.3 and
 - Development of a draft new Report on narrowband/wideband/broadband (NB/WB/BB) PPDR to address the needs of studies under Resolution 648 (WRC-12), with the view to suppress Report ITU-R M.2033.
- Latest drafts
 - Draft CPM text: [Annex 6](#) to [Doc. 5A/421](#)
 - Work plan: [Annex 7](#) to [Doc. 5A/421](#)
 - Working document towards a draft new Report: [Annex 16](#) to [Doc. 5A/421](#)

- Method A: Only editorial updating to Resolution 646 (Rev.WRC-12)
- Method B: Modify Resolution 646 (Rev.WRC-12)

References (1 of 2)

Recommendations and Reports relevant to WRC-15 agenda item 1.3

- **Report ITU-R [M.2033](#)**: “Radiocommunication objectives and requirements for public protection and disaster relief” (2003)

This document “identifies objectives, applications, requirements, a methodology for spectrum calculations, spectrum requirements and solutions for interoperability”

 - 1) Relevant to WRC-15 agenda item 1.3.
 - 2) Propose review and revision to further address broadband requirements.
 - 3) Decision taken to develop a new Report on narrowband, wideband, and broadband PPDR with a view to suppress Report ITU-R M.2033 upon completion of the new Report. See [Annex 16](#) to [Doc. 5A/421](#).
- **Recommendation [ITU-R M.2009](#)**: “Radio interface standards for use by public protection and disaster relief operations in some parts of the UHF band in accordance with Resolution **646 (WRC-03)**” (2012)
 - 1) Relevant to WRC-15 agenda item 1.3.
 - 2) Already under revision.
- **Recommendation [ITU-R M.2015](#)**: “Frequency arrangements for public protection and disaster relief radiocommunication systems in UHF bands in accordance with Resolution **646 (Rev.WRC-12)**” (2012)
 - 1) Relevant to WRC-15 agenda item 1.3.
 - 2) Already under revision.
- **Report ITU-R [M.2014](#)**: “Digital land mobile systems for dispatch traffic” (2012)
 - 1) Not relevant to WRC-15 agenda item 1.3.
 - 2) Revision complete and submitted to SG 5 for consideration.
 - 3) Completed.

References (2 of 2)

Recommendations and Reports for which consequential changes may be required based on results of technical studies

- **Recommendation [ITU-R M.1637](#):** “Global cross-border circulation of radiocommunication equipment in emergency and disaster relief situations” (2006)

The document is designed “to facilitate the global circulation of radiocommunications equipment to be used in emergency and disaster relief situations”.

1) References Resolution **646 (Rev.WRC-12)**; therefore relevant to WRC-15 agenda item 1.3.

- **Recommendation [ITU-R M.1826](#):** “Harmonized frequency channel plan for broadband public protection and disaster relief operations at 4 940-4 990 MHz in Regions 2 and 3” (2007)

The document “addresses harmonized frequency channel plans in the band 4 940-4 990 MHz for broadband public protection and disaster relief radiocommunications in Regions 2 and 3”

1) Relevant to WRC-15 agenda item 1.3, appears to address broadband already.

2) Suggest no further revision needed under WRC-15 agenda item 1.3; possible further review based on technical studies developed to support CPM text.

- **Recommendation [ITU-R F.1105](#):** “Fixed wireless systems for disaster mitigation and relief operations” (2006)

This document “provides characteristics of fixed wireless systems used for disaster mitigation and relief operations”

1) Not relevant to WRC-15 agenda item 1.3.

2) Possible revision to address broadband characteristics based on technical studies developed to support CPM text.

3) Draft revision agreed by SG 5 for PSAA consideration ([Doc. 5/90](#)).