

REPORT ITU-R M.2033

**Radiocommunication objectives and requirements
for public protection and disaster relief**

(2003)

1 Scope

The purpose of the Report is to define the public protection and disaster relief (PPDR) objectives and requirements for the implementation of future advanced solutions to satisfy the operational needs of PPDR organizations around the year 2010. Specifically, it identifies objectives, applications, requirements, a methodology for spectrum calculations, spectrum requirements and solutions for interoperability.

This Report has been developed in preparation for WRC-03 agenda item 1.3:

“to consider identification of globally/regionally harmonized 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 (WRC-2000)**.”

Resolution 645 (WRC-2000) invited the ITU-R to “study, as a matter of urgency, identification of frequency bands that could be used on a global/regional basis by administrations intending to implement future solutions for public protection agencies and organizations, including those dealing with emergency situations and disaster relief;” and “to study, as a matter of urgency, regulatory provisions necessary for identifying globally/regionally harmonized frequency bands for such purposes;”. Resolution 645 (WRC-2000) also invited the ITU-R to “... conduct studies for the development of a resolution identifying the technical and operational basis for global cross-border circulation of radiocommunication equipment in emergency and disaster relief situations;”. Recommendation ITU-R M.1637 provides additional guidance on this element.

2 Background

Radiocommunications have become extremely important to public protection and disaster relief (PPDR) organizations to the extent that PPDR communications are highly dependent upon it. At times, radiocommunication is the only form of communications available.

In order to provide effective communications, PPDR agencies and organizations have a set of objectives and requirements that include interoperability, reliability, functionality, security in operation and fast call set-up¹ in each area of operation. Considering that the radiocommunication

¹ Fast call set-up indicates reducing the response time to access the particular network.