Seminar on PPDR

Regulatory Aspects

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PPDR and the ITU

➢ **WRC2003 Agenda 1.3:** " to consider identification of globally/regionally harmonized bands, to the extension practicable, for the implementation of future advanced solutions to meet the needs of public protection agencies, including those dealing with emergency situation and disaster relief, and to make regulatory provisions, as necessary, taking into account Resolution 645 (WRC-2000)"

➢ **ITU-T vs ITU-R:** Little recognition of Radiocommunication requirements for PPDR presently exist at the international level.

➢ **PPDR Radiocommunication requirements:** Considerable efforts are presently underway within ITU-R WP8A to develop a solid understanding of PPDR Radio requirements

Present ITU Radio Regulations

➢Definition of "Safety Service S 1.59: " Any radiocommunication service used permanently or temporary for safeguarding life and property"

➢Maritime Mobile Services: Articles 30-34 contain operational provisions for GMDSS

➢No specific definition, RR, or designation for PPDR in ITU-R RR

Public Protection Aspects

➤ For Public Protection (PP): Until now, PP has been a domestic or a cross-border issue

➤ Nationally:
➤ Spectrum is identified for PP
➤ Spectrum for **interoperability** is identified:
  - This allows personnel from one agency to communicate with personnel from another agency, on demand and in real time
  - Interoperability is affected by spectrum, technology, network, standard, planning and available resources
  - Interoperability is required in day-to-day, mutual aid and task force activities
  - Interoperability can be supported and facilitated by pre-planning activities or by using particular technologies

What is meant by Interoperability

➤The view for Interoperability is broad: It can be complete or partial

➤Complete Interoperability: Full harmonization of spectrum and standard. Personnel from one agency can communicate with personnel from another agency, anytime, anywhere

➤Partial Interoperability: harmonization of some spectrum, standard defined for the use of this spectrum

-PP agencies are organized with an hierarchy and a specific jurisdiction. Normally, Radiocommunication with other organization follows an established protocol.

-Some users have indicated a preference for an interoperability which allows only communication between personnel at the top of the chain of command of the agencies involved in the activity

Disaster Relief Aspects

➢For Disaster Relief (DR): Is generally recognized that a variety of Radiocommunication services (e.g. Satellite, Amateur, Mobile, etc) have been used to provide emergency communication during disaster relief operations.

➢Nationally: Many administrations have rules and established procedures to facilitate of radiocommunication in emergency situations. In Canada, for example, the Emergency Act and the Emergency Preparedness Act provide provision for national emergency situations.

The Question

➢**At the international level, from ITU-R:**
-What is the radiocommunication requirements for PPDR on global/regional basis?
-To what extent interoperability is required ? complete or partial ?
-What role can ITU-R play to improve interoperability?

➢**This Translate into:** What are the international, regional, and national elements that would contribute to the change of the ITU Radio Regulations.

International Perspective

➢Currently there is no clear idea of what is required in the RR

➢Once the issue of interoperability is agreed, the following questions should be answered:
  - How much spectrum is required ?
  - How this spectrum should be identified ?
  - What method of identification be used ? (articles, footnote, resolution, recommendations, etc.)
  - Are provisions (eg GMDSS) regarding operational, compatibility, radio interface standards, and security, are required to ensure effective PPDR radiocommunications ?

➢ If there are clearly regional preference:
  - are ITU-R RR's required ? or
  - Can it be handled on a regional basis?

Answers are needed !!!

Possible WRC-2003 Outcomes

➢ Status Quo ?

➢ Recognition of PPDR through a WRC Res/Rec ?

➢ Some Spectrum identification and associated conditions on regional basis?

➢ Request the ITU-R to develop Rec's on :
  - Technical & operational requirements and characteristics for PPDR applications
  - Interoperability requirements
  - Spectrum Requirements
  - Collection of best practices used by administrations for PPDR
  - Implication of using public commercial systems to provide PPDR

Thank you