



ITU-R Activities on PPDR

Alan R Jamieson
New Zealand
(Chairman of WG 8A3)



PPDR in the ITU-R

- WRC-2000 decision
- Involvement of ITU-R services
- Overview of ITU-R studies
- CPM-02 preparation
 - Lead responsibility group
 - Other interest groups
- Status of studies and activities
- Future work



WRC-2000 Decision

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);”



Important aspects of agenda item

- Identification of **harmonized bands** on a global or regional basis envisaged
- Focus is on **future advanced solutions**; recognizes difficulties with ad hoc approach used to date
- **Public protection and disaster relief**; day-to-day operations as well as emergencies
- **Regulatory provisions** may be required



Resolution 645 (WRC-2000)

Considers and recognizes:

- Needs for high data rates, video and multimedia applications in future
- Interoperability and network interworking
- Developing country needs for low cost solutions and equipment choice
- Effectiveness of disaster relief assistance
- Potential benefits from spectrum harmonization



Involvement of radiocommunication services

- Predominantly **mobile services** operated in the main by government public protection agencies but also by commercial service providers
- **Fixed services** include/will include:
 - Point-to-point applications
 - Fixed wireless access type applications
- **Amateur services** have a long history of assisting with radiocommunications during emergencies and disaster events



Overview of ITU-R studies

- **WRC-2000** adopted agenda items for WRC-03 and called for ITU-R studies
- **CPM-02/1** assigned responsibilities to Study Groups for WRC-03 agenda items
- SGs reports on studies to date form the **Draft CPM Report**
- Report on technical bases for WRC-03 decisions will be completed by **CPM-02/2**
- **WRC-03** will consider and resolve agenda items as it sees appropriate
- **Future work** in ITU-R will be dependent in part upon WRC-03 decisions



PPDR studies

- WP 8A of SG 8 assigned lead responsibility for PPDR studies
- Other contributing and interested groups include:
 - SG 1
 - SG 8 (WPs 8B, 8D and 8F)
 - SG 9 (WPs 9B and 9D)



PPDR terminology

Public protection radiocommunication

Radiocommunication used by responsible agencies and organizations dealing with maintenance of law and order, protection of life and property, and emergency situations



PPDR terminology (cont)

Disaster relief radiocommunications

Radiocommunication used by agencies and organizations dealing with serious disruption of the functioning of society, posing a significant, widespread threat to human life, health, property or the environment, whether caused by accident, nature or human activity, and whether developing suddenly or as a result of unexpected complex, long term processes



Status of ITU-R studies on PPDR

- WP 8A has reported on its studies in Section 2.1 of the Draft CPM Report:
 - Results of survey on PPDR activities
 - Future advanced solutions (narrowband, wideband and broadband)
 - Technical and operational issues
 - Spectrum requirements and candidate bands
 - Methods to satisfy the agenda item
 - Regulatory provisions



Status of ITU-R studies on PPDR (cont)

*Draft New Recommendation ITU-R
M.[DR.CIRC]*

*“Global cross-border circulation of
radiocommunication equipment in
emergency and disaster relief situations”*

- WP 8A has approved this DNR developed in response to Resolution 645
- The DNR will be considered by SG 8 in Feb 2003



Status of ITU-R studies on PPDR (cont)

Draft New Report ITU-R M. [PPDR]

“Radiocommunication objectives and requirements for public protection and disaster relief (PPDR)”

- WP 8A has approved this report which defines objectives and requirements for the implementation of future advanced PPDR solutions
- Focuses on operational needs around 2010



Future activities on PPDR within the ITU-R

- Dependent upon decisions reached by WRC-03 on agenda item 1.3
- Review of the methodology for calculating PPDR spectrum requirements
- Studies required on implementation technologies for future advanced solutions
- Revise and update the DNR on PPDR systems and characteristics in line with operational and technology developments



Summary

PPDR activities within the ITU-R:

- WRC-2000 challenge accepted and met
- First stage of technical studies completed
- Draft CPM Report provides methods to satisfy agenda item 1.3
- Further studies will be dependent upon WRC-03 decisions on PPDR
- Implementation studies will be required

Public Protection & Disaster Relief

